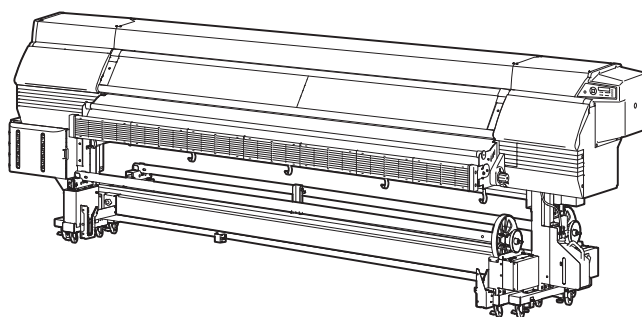




Solvent Ink
Color Inkjet Printer

IP-7900



Read this User's Guide carefully before use of this printer and handle it properly.
After reading, keep it for later use.

Seiko I Infotech Inc.

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Introduction

IP-7900 Solvent Ink Color Inkjet Printer (hereafter simply called the printer below.) is equipped with built-in USB interface that adopts solvent ink and supports media of up to 104-inch width.

This guide, **the IP-7900 Solvent Ink Color Inkjet Printer User's Guide**, describes such information for use as features and names of parts of the printer and basic operations including power ON/OFF and media/ink setting.

The following items should be read before reading Section 1.

- **Delivery product**
- **Safety precautions**
- **Handling precautions**
- **Manual legend (notation rules)**

Read these items to use the printer safely and properly. Keep this manual in a place where you can quickly access it at any time.

Components delivered with this product

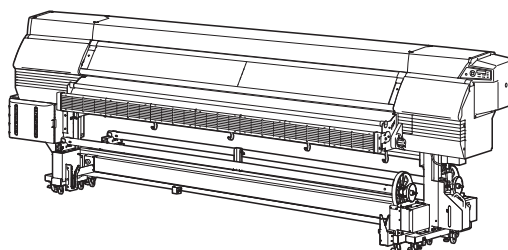
The following components are delivered with the printer, and installed to the printer at the printer installation, check that all the components below are delivered.

If any item is missing or damaged, contact your dealer from whom you purchased the printer or the nearest service depot.

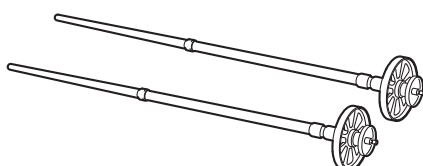
Basic configuration item

Printer <1 unit>

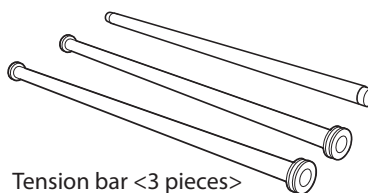
- equipped with USB interface
- mounted with the roll feed unit and take-up reel unit



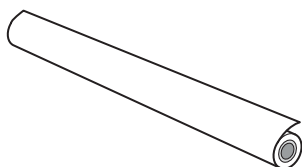
Items packed with printer



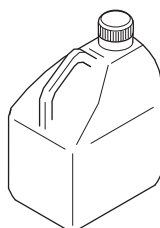
Scroller <2 pieces>



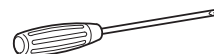
Tension bar <3 pieces>
(with a flange: 2 pieces)
(with no flange: 1 piece)



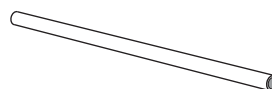
Roll media (for adjustment)
<1 piece>



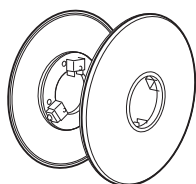
Waste ink bottle IP6-109
<1 bottle>



Phillips screwdriver



104-inch paper tube
(for take-up reel unit)
<1 piece>



Paper tube flange
<2 pieces>



Rubber spacer A
<1 piece>



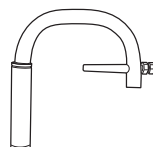
Rubber spacer B
<1 piece>



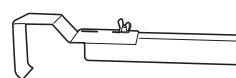
Rubber spacer C
<1 piece>



Flange for take-up/fixing ring
<2 pieces each>

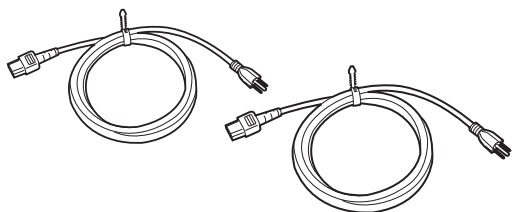


Pullout handle of scroller
<1 piece>

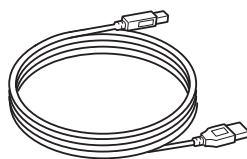


Paper setting gauge
<1 piece>

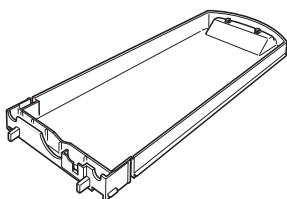
Accessories



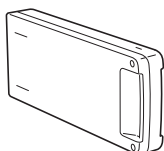
Power cable
<2 pieces>



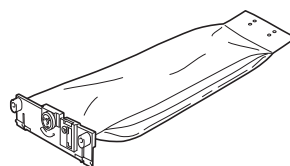
USB2.0 cable
<1 piece>



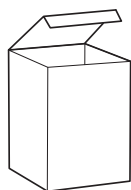
Ink tray
IP7-123
<8 pieces>



Subcartridge*

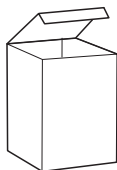


Dummy pack



Daily maintenance kit IP7-130
<1 set>

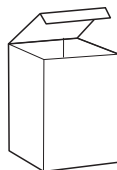
- Cap cleaning liquid : 300 ml
- Wiper cleaning liquid : 200 ml
- Spittoon absorber liquid : 100 ml
- Cleaning roller : 30 pieces
- Cleaning swab : 10 pieces
- Dripper : 10 pieces
- Tweezers : 1 piece
- Cleaning stick : 1 piece
- Spittoon case : 1 piece
- Gloves : 30 pairs
- Bag : 1 piece



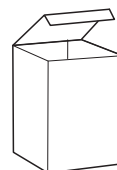
Wiper cleaning liquid set IP7-131
<1 set>
• Wiper cleaning liquid (200 ml) : 3 bottles



User's Guide
(this guide)
<1 volume>



Spittoon absorber
liquid IP7-132
<1 set>
• Spittoon absorber liquid(100 ml) : 3 bottles



Wiper cleaning liquid
extraction set

* Subcartridge consists of the colors below.

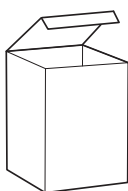
- (1) Y, M, C, K, Lm, Lc, Gy, and Lgy (1pc for each) for 8-color mode
- (2) Y, M, C, and K (2pcs for each) for 4-color mode

Option

• Exhaust attachment	: 2
• PS RIP (PhotoPrint 6 Standard SIIT Edition)	: 1
• PS RIP (PhotoPrint 6 Server SIIT Edition)	: 1
• Mesh printing kit	: 1
• Footswitch	: 1
• Scroller	: 1
• Color exchange set	: 1
Cleaning liquid pack	: 4
Dummy subcartridge	: 4

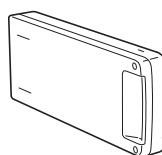
* Options can be ordered separately.

Consumables

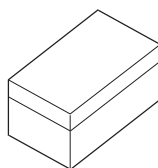


Daily maintenance kit IP7-130 <1 set>

• Cap cleaning liquid	: 300 ml
• Wiper cleaning liquid	: 200 ml
• Spittoon absorber liquid	: 100 ml
• Cleaning roller	: 30 pieces
• Cleaning swab	: 10 pieces
• Dropper	: 10 pieces
• Tweezers	: 1 piece
• Cleaning stick	: 1 piece
• Spittoon case	: 1 piece
• Gloves	: 30 pairs
• Bag	: 1 piece

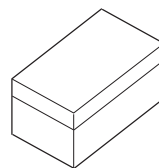


Subcartridge (8 colors) (Y, M, C, K, Lc, Lm, Gy, Lgy)



Cleaning liquid kit IP7-136 <1 set>

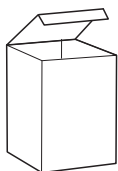
• Cleaning liquid pack	: 8 pieces
• Dummy subcartridge	: 8 pieces



Storage liquid kit IP7-137 <1 set>

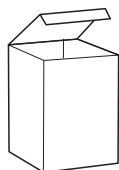
• Storage liquid pack	: 8 pieces
• Dummy subcartridge	: 8 pieces

Consumables (continued)



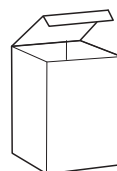
Cap cleaning liquid set IP7-134
<1 set>

- Cap cleaning liquid (300 ml) : 3 bottles

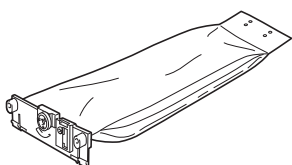


Wiper cleaning liquid set IP7-131
<1 set>

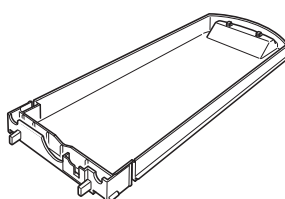
- Wiper cleaning liquid (200 ml) : 3 bottles



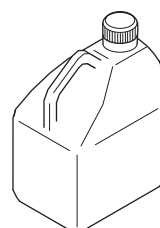
Cleaning swab IP6-147
<300 pieces>



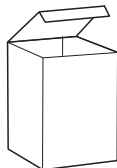
Ink pack (8 colors)
(Y, M, C, K, Lc, Lm, Gy, Lgy)
→ As for part number, refer to P.1-6.



Ink tray
IP7-123
<8 pieces>

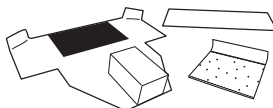


Waste ink bottle
IP6-609
<1 bottle>

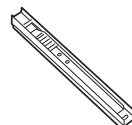


Spittoon absorber
liquid IP7-132
<1 set>

- Spittoon absorber liquid (100 ml) : 3 bottles



Head cleaning kit
IP7-125



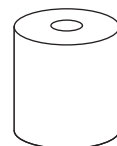
Cleaning stick
IP5-120
<1 piece>
(with one cleaning roller)



Cleaning roller set
IP5-121
<90 pieces>



Wiper blade
IP7-133
<8 pieces>



Absorbent sheet
IP7-124
<1 roll>

Wiper cleaning liquid <1 bottle>

Glove set <100 sets>

Spittoon case set

- Spittoon case
- Bag

Absorbent sponge <10 pieces>

IP7-135

IP7-138

IP7-126

* Consumables can be ordered separately.

Safety precautions

The following symbols are used in this manual to ensure the proper use of the printer and to prevent the printer from being damaged.

Follow the instructions marked with these symbols.

 WARNING	Serious personal injury or death: Failure to follow the guidelines marked with this symbol could result in serious personal injury or death.
 CAUTION	Minor personal injury or product and/ or peripheral damage: Failure to follow the guidelines marked with this symbol could result in minor personal injury or product and/or peripheral damage.

Example of symbols :



This symbol (△) denotes items that require special care while executing a certain procedure or operation.



This symbol (⊘) denotes items that are forbidden.



This symbol (●) denotes items you should follow to prevent accidents or injury.



WARNING

Be sure to read warnings below before use.



Use the power supply voltage specified on the nameplate. DO NOT plug several devices into one electrical outlet as this may result in fire or electric shock.



Make sure the printer is well grounded. If not, a short circuit may cause fire or electric shock.



DO NOT disassemble or remodel the printer. Doing so may cause an accident or a breakdown.



DO NOT damage, break, process, or heat the power cable. If it is damaged, replace it with a new one. Using a damaged power cable may cause fire or electric shock.



NEVER use the printer in a place of extreme humidity or any place where it can possibly be splashed by any liquids. If any liquid gets into the printer, it could lead to fire, electric shock, or a breakdown.



DO NOT remove the secured covers of the printer because they cover high-voltage and extremely hot parts. Careless removal might result in electric shock or burn.



DO NOT allow metal or liquids to touch the internal parts of the printer. Doing so may cause fire, electric shock, or a breakdown.



DO NOT disconnect or connect the power cable with wet hands. Doing so may lead to electric shock.



Turn the printer off and unplug the power cable from the power outlet immediately after it thundered.



Turn the printer off and unplug the power cable from the power outlet in any of the following cases: Using the printer continuously in an abnormal state may result in an accident or fire.

- When putting your hands inside the printer.
- Smoke, strange noise or smell is generated from the printer or the printer is overheated.
- A piece of metal or any liquid touches the internal parts or slot of the printer.
- An error requiring service by a service center occurs.



DO NOT put your hand unnecessarily inside the printer such as covers, ventilator opening and ink cartridge slot. Doing so may result in personal injury. Even if the printer is not operating, it may perform a function automatically. Use caution with the printer even if it is not printing.



NEVER put any ink cartridge close to fire as this may cause fire, since the ink is flammable containing petroleum solvent.



Do not swallow ink or avoid its splashes on the eye to prevent breathing trouble or visual impairment. If ink gets into the eye, wash it off with clean running water and consult a doctor. If it is swallowed, do not try to vomit it forcefully, but consult a doctor.



Keep ink cartridges out of reach of children.



If the printer is stained with ink, remove the ink from the printer immediately. If the printer is left stained, parts may be broken or the surface paint may come off.



CAUTION Ensure to read cautions below before use.



Since media rolls are heavy, handle them with care. If you drop them on your foot, you may be injured.



Always hold the power cable or USB cable by the plug or the connector when connecting or disconnecting the power cable or USB cable. Never pull the cable directly because this may damage it, which may result in fire, electric shock, a breakdown, or personal injury.



DO NOT get ink on your skin or clothes. Wash off any ink immediately with soapy water.



DO NOT place the printer on an unstable table or at a slant place. If it falls, it may lead to injury.



DO NOT place media rolls on tables or unlevel areas where it could fall. If dropped or falls, it may lead to injury. To prevent falling, lock the casters.



DO NOT touch the heater to avoid burn as it becomes hot.

In order to ensure safe operation of the printer, heed all the warnings and cautions contained throughout this manual.

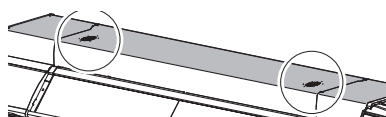
Handling precautions

Power supply

1. Install the printer near an easily accessible electrical outlet.
2. Do not provide power to the printer through the same power line as for noise-generating devices, such as a motor.
3. Use the power supply specified on the nameplates of printer and option.
4. Connect the power cable to an electrical outlet. Do not plug several devices into one electrical outlet.

Printer

1. Do not place anything on top of the printer. Do not rest your elbows on the printer. Especially be careful not to block the printer's exhaust outlet shown by the figure below.



2. Do not apply shock or stress to the printer.
3. When opening or closing the front cover, hold it with both hands and open or close it gently.
4. Before connecting or disconnecting the interface connector, turn the printer off.
5. Do not clean the surface of the cover with benzene or paint thinner. The coating may come off or deteriorate.
Clean the cover with a soft cloth. If the cover is very dirty, wipe it off with a cloth moistened with water-diluted neutral detergent.
6. Handle a print head with care.
 - Do not touch it unnecessarily or scratch it.
 - Do not touch the bottom (nozzle surface).

Periodic inspection and maintenance

As the intrinsic characteristics of solvent ink, the regular periodic inspection and maintenance must be performed.

1. Clean the capping unit and the wiper blade everyday.
2. Check visually the remaining wiper cleaning liquid everyday.
3. Clean the print head every month.
4. Perform the service cleaning when leaving the printer for two weeks or more in a power-off state.
5. Perform the head wash and the ink charge before printing again after the printer is left for a long time.

For various periodic inspection and maintenance, refer to P.2-108 to P.2-120.

Consumables

1. Always use the specified ink. Failure to follow this instruction may cause poor print quality or a breakdown.
2. Do not use expired ink as this may cause a breakdown.
3. Put used ink packs into a plastic bag and dispose of them as industrial waste. Observe local regulations for disposal of consumables.
4. Do not get ink on your skin or clothes. If ink touches your skin, wash it off immediately with soapy water.
5. Check the level of the waste ink bottle regularly to prevent overflow.
6. When removing the waste ink bottle, spread a sheet so as not to stain the floor with spilt ink.
7. Store ink in a dark and cool place. Keep away from high-temperature and direct sunlight.
Doing so may deteriorate ink characteristic.
8. Do not disassemble ink pack.

Printer warranty

1. To understand the printer's performances and functions well and use the printer safely, be sure to read this guide.
2. The use of consumables, accessories and options other than our products specified by Seiko I Infotech Inc. affects print image quality and causes damage to the print, which prevents maintenance. Never use unspecified consumables, accessories or options.
3. To secure the quality, the expiration dates of use and installation are indicated on ink, storage liquid, cap cleaning liquid, and wiper cleaning liquid.
 - Expiration date of installation:
The expiration date of installation is indicated on the packaging box or the printer. Install them to the printer before the date.
 - Expiration date of use:
Do not use it after expired.

Manual legend (Notational rules)

The notational rules such as marks, keys, LCD, and LEDs used for explanation in this guide are as follows:

Marks



WARNING

- Boxes marked with a "WARNING" describe points of caution for avoiding serious personal injury.



CAUTION

- Boxes marked with a "CAUTION" describe points of caution for avoiding injury to yourself or damage to the printer.

Note

- They explain the important items and cautions that should be kept for operation of the printer.



HINT: Hint mark

This mark describes operations that make using or handling the printer easier.

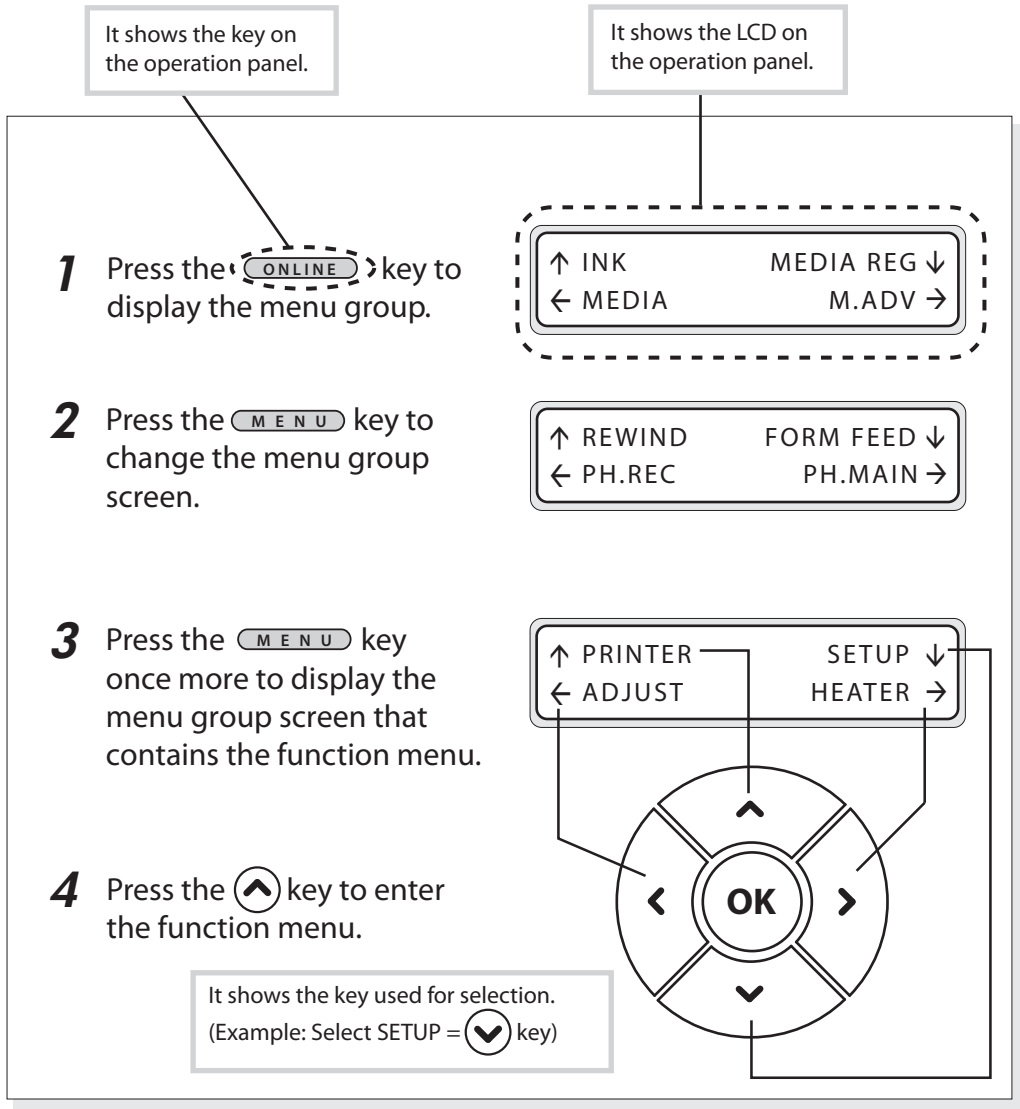


Reference mark

This mark is followed by a reference section or page number.

Key / LCD / LED marks

(Example 1) Keys and LCD marks in a sentence



(Example 2) LED marks in a sentence

The ON, blinking, and OFF states of LEDs are indicated as follows:

- ☐ ON (lighting)
- ☐ Blink
- ☐ OFF (lights-out)

(Example 3) Transition of LCD state and the key operation in a sentence

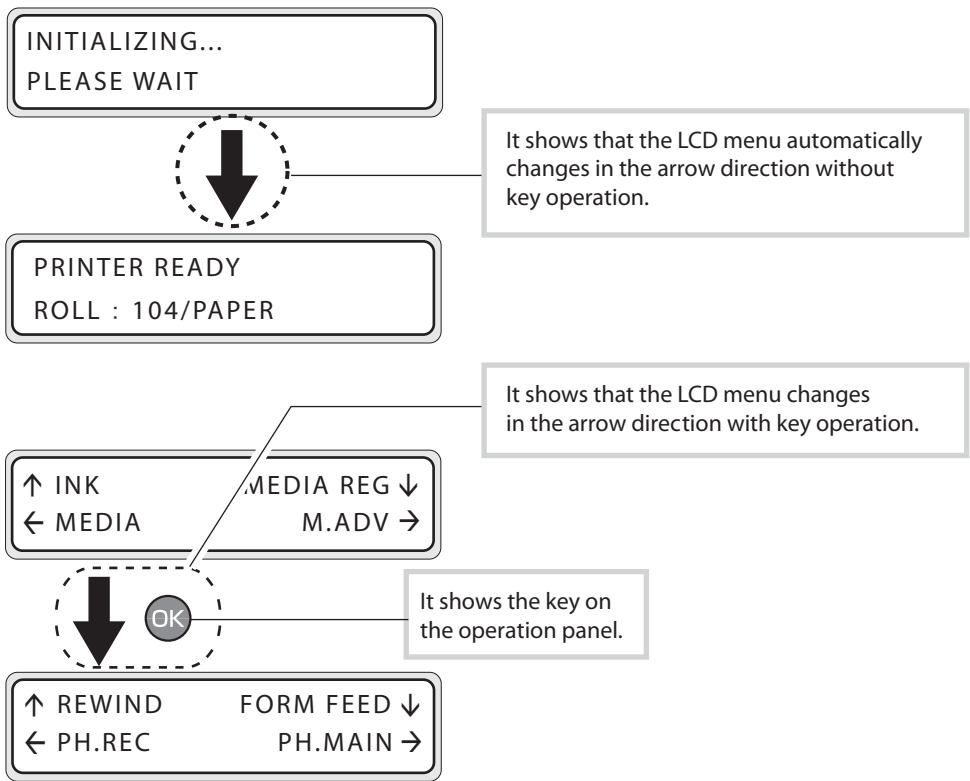


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1

Overview



This section describes the information (basic knowledge) needed before using the printer. After reading this section, proceed to section 2.

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Operating conditions

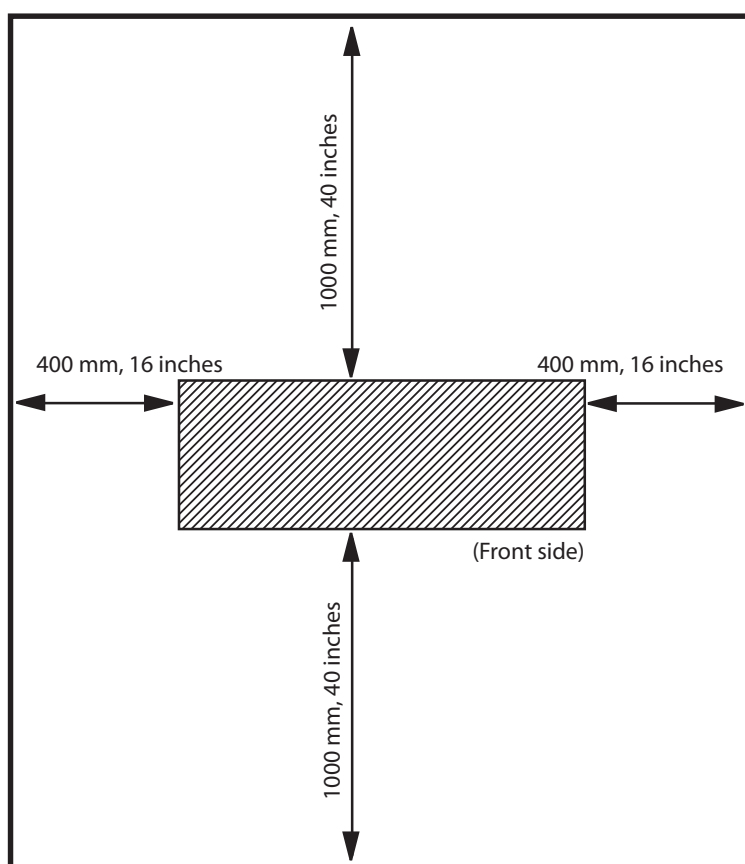
This section describes the operating conditions required for the printer.

Installation space

Adequate space is required around the printer for supplies replacement of consumables and parts, print processing, and ventilation during normal operation and maintenance.

Keep the space shown in the figure below.

■ Installation and maintenance space



Height direction: 2200

(Unit: mm)

Environmental conditions

■ Operating temperature and humidity levels

Use the printer within the temperature and humidity levels shown below.

Temperature: 15°C to 30°C (60°F to 80°F)

Humidity: 30% to 70%

- ◇ To obtain better print quality, use the printer within a temperature range of 20 to 25°C (68 to 77°F).
- ◇ To keep a stable and good print quality, the printer slows down the print speed when the head temperature exceeds 40°C (104°F).

Note

- If the printer is used out of the operating temperature and humidity ranges, the print may be stopped or the print quality may be degraded.
- It takes time for the printer to reach the operating environment temperature and humidity. To get good print image quality, it is recommended to keep the room temperature 20 to 25°C, 68 to 77°F and use the printer after 1 hour.

■ Places where the printer must not be installed

Do not install the printer in the following places.

- ◇ Places near fire
- ◇ Places exposed to direct sunlight
- ◇ Places subject to vibration
- ◇ Places with excessive dust
- ◇ Places subject to extreme changes in temperature or humidity
- ◇ Places near an air conditioner or a heater
- ◇ Places where the printer may get wet
- ◇ Places exposed to direct exhaust air from an air vent
- ◇ Places near a diazo copier that may generate ammonia gas
- ◇ Places with poor ventilation
- ◇ Unstable places

Media

■ Type of media

The following recommended media are provided.

For details, contact your dealer or Seiko I Infotech sales.

- Vinyl chloride
- Flexible face
- Banner
- Mesh banner
- Cloth

■ Precautions for storing media

- ◇ Avoid direct sunlight and water regardless of before and after opening the package.
Put media in the packing box to prevent dust and store media in a cool and dark place.
- ◇ Avoid rapid change of temperature and humidity and store media with no condensation.
- ◇ Do not store media in an upright condition to prevent winding deviation of media and damage of roll edge.
- ◇ Do not pile up media.

■ Precautions for disposing of media

- ◇ Dispose of media in a manner consistent with local regulation. Observe any regulations for disposal of consumables.

■ Precautions for preparing media

- ◇ Avoid a change of temperature and humidity after opening package. Load media after leaving media in the operation environment for 3 hours or more. Be cautious of a change of humidity by turning ON/OFF the air conditioner.
- ◇ In terms of media characteristics, curl of paper in low humidity and wrinkles of media in high humidity occur easily. Use paper in normal temperature and humidity environment (around 23°C, 73°F and 50% RH).
- ◇ Do not use scratched, wrinkled, curled, or dust-stained part of media. Especially, both edges of roll affect media feeding. Also, do not drop or wet the media. Doing so may adversely affect print quality and may cause a printer's malfunction.
- ◇ Hold edges of the media so as not to touch the print surface. Adhesion of sebaceous matter or sweat may degrade print quality.
- ◇ Correct distortion of roll media before loading.

■ Precautions for handling prints

- ◇ Do not touch the print surface before the ink dries (within 24 hours after printing in particular). Handle by edges of the media.
- ◇ Rubbing print surface causes color fading or color transfer. Do not contact print surfaces to prevent color transfer.
- ◇ Do not put printed matters on printouts from copier or laser printer. They may adhere to each other due to ink or toner. Also, do not place the printed media directly on the wax-coated floor. This may damage the prints.
- ◇ Do not rub, scratch or fold the printed surface of media. If done so, the print on the surface may come off.
- ◇ Do not rub or leave wet prints to prevent blurring or loss of print.

■ Other precautions of media

- ◇ Media causes color fading and a change in quality in getting old.
- ◇ Paper dust generated when cutting media may cause laminate peeling-off.
- ◇ When self-adhesive media is used, the adhesive may adhere to the platen or other parts. This may cause a media jam. Wipe it off referring to [Section 2 Basic operation].

Ink pack

■ Ink types

Use only the recommended ink packs listed below.

[8-color ink] One box contains one ink pack.

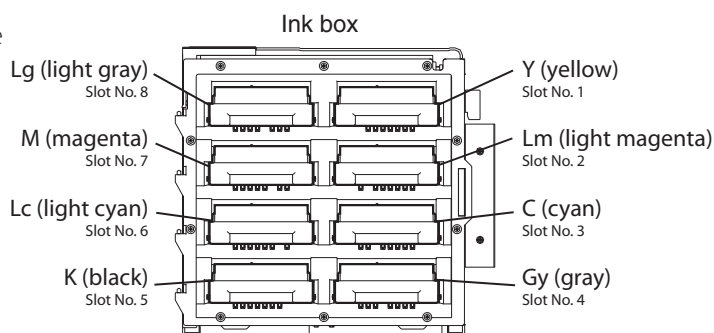
Type	Ink color	Quantity
IP7-101	Y (yellow)	1500 ml
IP7-102	M (magenta)	1500 ml
IP7-103	C (cyan)	1500 ml
IP7-104	K (black)	1500 ml
IP7-105	Lc (light cyan)	1500 ml
IP7-106	Lm (light magenta)	1500 ml
IP7-107	Gy (gray)	1500 ml
IP7-108	Lgy (light gray)	1500 ml

Note

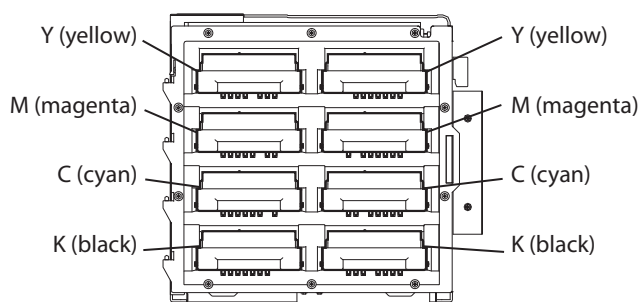
- Always use these specified ink packs. Failure to use the recommended ink pack may lead to a deterioration of the print quality or a printer malfunction. This may invalidate your warranty.
- The ink validity period is 12 months from the date of production.
- Do not shake these ink packs before using them.
- Install ink packs and ink trays to all the 8 slots. When you remove ink packs or ink trays, be sure to install new ones instead.

Ink packs and ink trays must be installed in all eight slots. The positions of ink packs are specified by color. (See the figure below.)

8-color mode



4-color mode

**WARNING**

- Never bring ink close to fire. Failure to follow this warning may result in fire.

**CAUTION**

- Do not swallow ink or avoid its splashes on the eye to prevent breathing trouble or visual impairment. If ink gets into the eye, wash it off with clean running water and consult a doctor. If it is swallowed, do not try to vomit it forcefully, but consult a doctor.

■ Precautions for ink storage and processing

**CAUTION**

- Put used ink packs into a plastic bag and dispose of them as industrial waste. Observe any regulations for disposal of consumables.

Note

- Ink has a validity period. Using expired ink may degrade print quality and cause a printer malfunction.
- Store ink packs in a cool and dark place. Always use the specified ink. Using unspecified ink may cause poor print quality or a breakdown, which may prevent maintenance.

Waste ink bottle

Use the recommended waste ink bottle listed below.

Type	Content	Quantity
IP6-109	Waste ink bottle	1 piece



WARNING

- Never put the waste ink bottle close to fire. Failure to follow this warning may result in fire.



CAUTION

- Do not swallow ink or avoid its splashes on the eye to prevent breathing trouble or visual impairment. If ink gets into the eye, wash it off with clean running water and consult a doctor. If it is swallowed, do not try to vomit it forcefully, but consult a doctor.

Note

- Install the waste ink bottle securely.
- A waste ink bottle must always be installed. When it is removed for disposal of waste ink, another empty waste ink bottle must be installed.

■ Precautions for handling the waste ink bottle



CAUTION

- When the waste ink bottle becomes full, securely fasten the attached cap and dispose of the bottle as industrial waste.

Note

- If you cannot dispose of waste ink, contact the sales dealer or nearest service depot. Be sure to tighten the caps of waste ink bottles and put them in bags so that the ink does not leak. Then put the bags in cardboard boxes and send the cardboard boxes to the collection center.

Daily maintenance kit

Use the recommended cleaning liquid listed below for cap and wiper cleaning.

Type	Content	Quantity
IP7-130	Cap cleaning liquid	300 ml
	Wiper cleaning liquid	200 ml
	Spittoon absorber liquid	100 ml
	Dripper	10 pieces
	Cleaning swab	10 pieces
	Cleaning stick	1 piece
	Cleaning roller	30 pieces
	Tweezers	1 piece
	Spittoon case	1 piece
	Gloves	30 pieces
	Bag	1



CAUTION

- Do not swallow cleaning liquid or avoid its splashes on the eye to prevent breathing trouble or visual impairment. If cleaning liquid gets into the eye, wash it off with clean running water and consult a doctor. If it is swallowed, do not try to vomit it forcefully, but consult a doctor.

Cap cleaning liquid set

Type	Content	Quantity
IP7-134	Cap cleaning liquid (300 ml)	3 bottles

Wiper cleaning liquid set

Type	Content	Quantity
IP7-131	Wiper cleaning liquid (200 ml)	3 bottles

Wiper cleaning liquid

Type	Content	Quantity
IP7-135	Wiper cleaning liquid (200 ml)	1 bottle

Cleaning swab

Type	Content	Quantity
IP6-147	Cleaning swab	300 pieces
	Bag	6 pieces

Storage liquid kit

Type	Content	Quantity
IP7-137	Storage liquid pack	8 pieces
	Dummy subcartridge	8 pieces

Cleaning liquid kit

Type	Content	Quantity
IP7-136	Cleaning liquid pack	8 pieces
	Dummy subcartridge	8 pieces

Head cleaning kit

Type	Content	Quantity
IP7-125	Head cleaning sheet	6 sheets
	Support sheet	1 pieces
	Platen sheet	1 pieces
	Manual	1 pieces

Spittoon absorber liquid

Type	Content	Quantity
IP7-132	Spittoon absorber liquid (100 ml)	3 bottles

Subcartridge

Type	Ink color	Quantity
IP7-111	Y (yellow)	400 ml
IP7-112	M (magenta)	400 ml
IP7-113	C (cyan)	400 ml
IP7-114	K (black)	400 ml
IP7-115	Lc (light cyan)	400 ml
IP7-116	Lm (light magenta)	400 ml
IP7-117	Gy (gray)	400 ml
IP7-118	Lgy (light gray)	400 ml

Wiper blade

Type	Content	Quantity
IP7-133	Wiper blade	8 pieces

Cleaning stick

Type	Content	Quantity
IP5-120	Cleaning stick	1 piece
	Cleaning roller	1 piece

Cleaning roller set

Type	Content	Quantity
IP5-121	Cleaning roller	90 pieces

Spittoon case set

Type	Content	Quantity
IP7-126	Spittoon case	1 piece
	Bag	1 piece

Ink tray

Type	Content	Quantity
IP7-123	Ink tray	1 piece

Glove set

Type	Content	Quantity
IP7-138	Gloves	100 pairs

Absorbent sponge (Option for mesh banner)

Type	Content	Quantity
IP7-127	Absorbent sponge	10 pieces

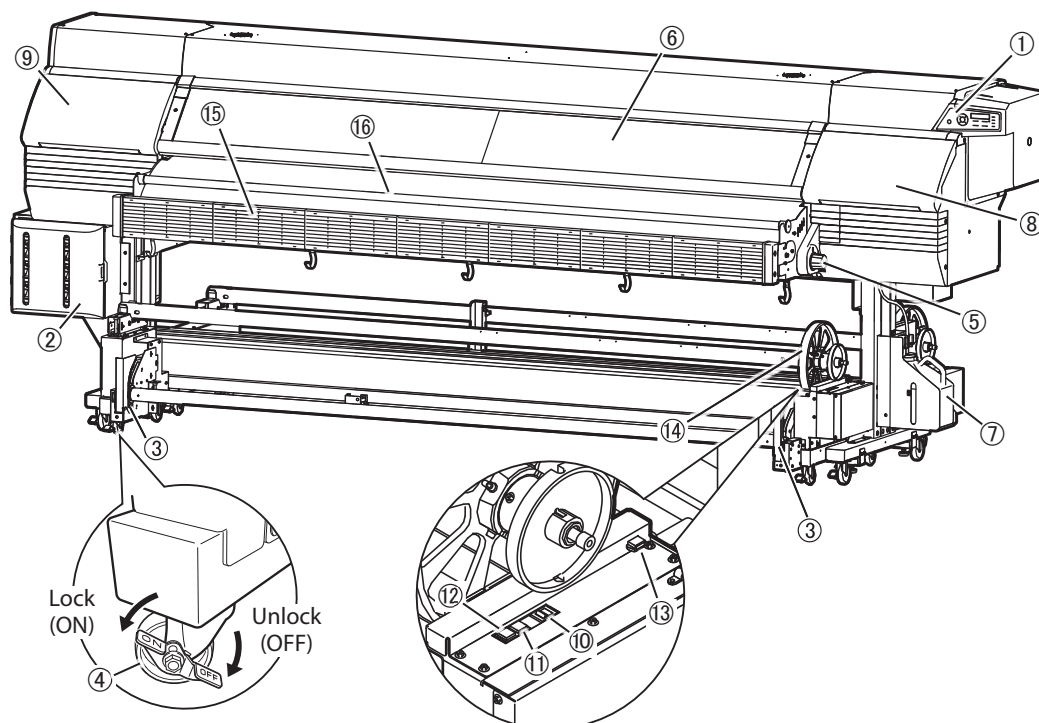
Absorbent sheet (Option for mesh banner)

Type	Content	Quantity
IP7-124	Absorbent sheet	1 roll

Appearance / Name and function of each part

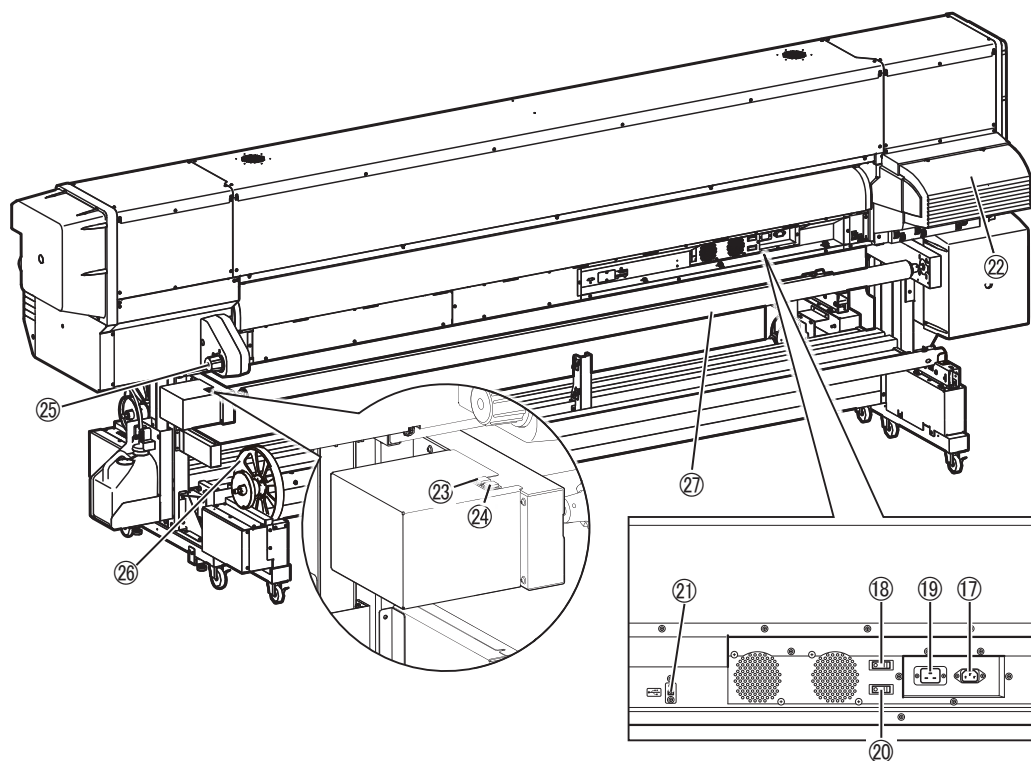
This section shows the printer appearance and describes the name and function of each component.

Printer front (takeup side)



①	Operation panel	Provided with LEDs and LCD to display printer status and keys to set functions.
②	Ink box cover	An inlet to set ink (Note: Displayed as "INK COVER" on the LCD.)
③	Tension bar guide	The guide of bar to apply tension to the media (☞P.2-21)
④	Caster	Unlocked to move the printer and locked to immobilize it.
⑤	Pressure control knob	A knob to switch the media press force (☞P.2-105)
⑥	Front cover	Must be closed during printing.
⑦	Waste ink bottle unit	A unit to contain a waste ink bottle (☞P.2-87)
⑧	Cap cover	Opened when cleaning the capping unit or replacing the wiper blade. (☞P.2-111, P.2-114)
⑨	Wipe cover	Opened when maintaining the print head (replacement/height adjustment). (☞P.2-90)
⑩	Take-up direction switch	A switch to select media takeup direction (☞P.2-17)
⑪	Media feed switch	A switch to feed media automatically (☞P.2-14)
⑫	Take-up reel switch	A switch to wind media automatically (☞P.2-31)
⑬	Footswitch connector	A connector to connect optional Footswitch (☞P.A-3)
⑭	Scroller	A shaft to feed or wind media (☞P.2-7)
⑮	Media dryer fan	A fan to dry ink after printing.
⑯	Protection bar	A bar to protect media surface just after the print.

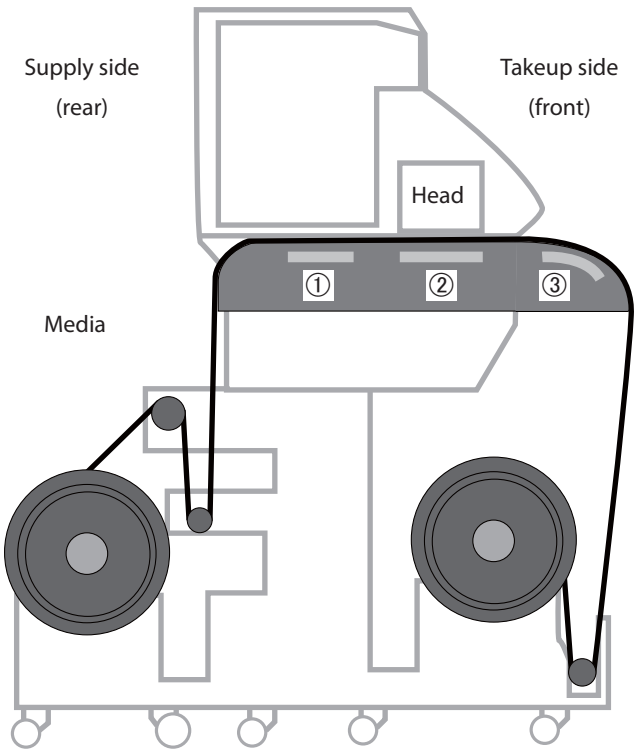
Printer rear (supply side)



17	Printer power inlet	
18	Printer power switch	(P.2-3)
19	Heater power inlet	
20	Heater power switch	
21	USB connector	Connected to the printer server. (P.2-2)
22	Subcartridge	An auxiliary ink for printing even during replacement of ink
23	Take-up reel switch	(P.2-14)
24	Media feed switch	(P.2-14)
25	Pressure control knob	(P.2-105)
26	Scroller	(P.2-7)
27	Peel roller	(P.2-14)

Printer heater unit

This printer is equipped with three heaters for ink fusing and image quality stabilization.



①	Preheater (rear)	Preheats media.
②	Print heater (front)	Penetrates ink into media to fuse the ink.
③	Afterheater (finishing)	Dries ink to stabilize print quality.

* These three heaters are controlled independently.
The temperature of each heater can be controlled from the operation panel and the host PC (RIP).
(☞P.2-101 Changing temperature using the heater control menu)

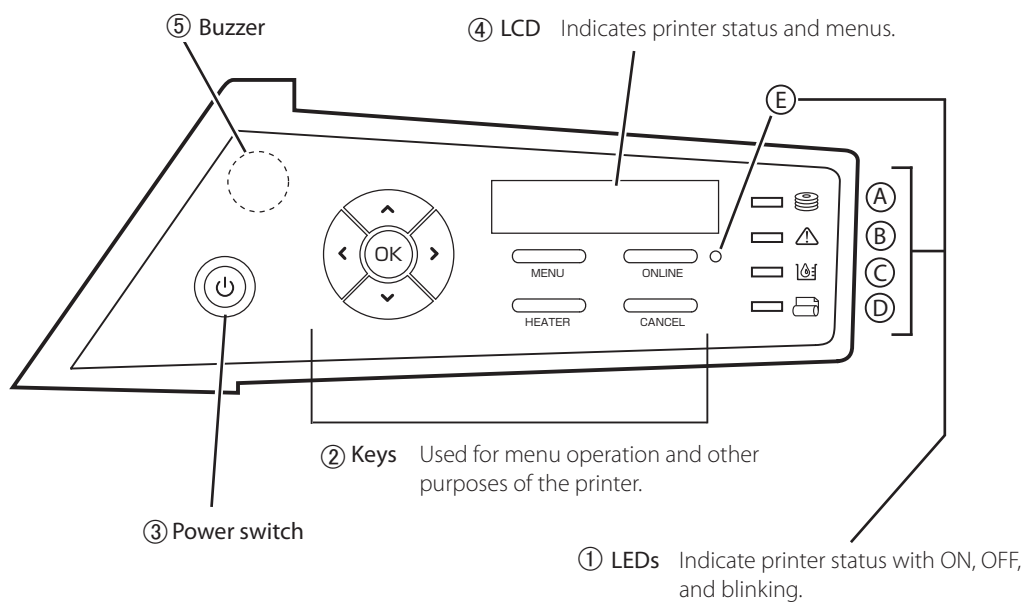


WARNING

- Do not touch these heaters to avoid burn as they become hot.

Operation panel

The keys, LEDs and LCD are laid on the operation panel of the printer as shown below. In addition, the operation panel is also equipped with a buzzer function for attention in case an error occurs or an invalid input is entered.



■ Name and function of LCD, LEDs, and keys

No. / Classification	Name	Function
① LED	Ⓐ Data LED (Green)	Indicates data reception state. – Blink: Receiving data from the host computer. – OFF: No receiving data from the host computer.
	Ⓑ Error LED (Orange)	Indicates whether an error has occurred. – ON: An error has occurred. – Blink: Warning state. – OFF: Normal (no error)
	Ⓒ Ink LED (Green)	Indicates whether ink is remaining. – ON: Ink of all colors is present. – Blink: Ink near-end (Ink of any color is little.) – OFF: No ink.
	Ⓓ Media LED (Green)	Indicates whether media is remaining. – ON: Media is present (Either roll media or cut-sheet media is loaded.) – Blink: Take-up reel unit's operation was suspended. – OFF: No media (Neither roll media nor cut-sheet media is loaded.)
	Ⓔ ONLINE LED (Green)	Indicates online or offline state of the printer. – ON: Online – Blink: Online pause mode – OFF: Offline
② Key	ONLINE key	Used to select online or offline of the printer.
	MENU key	Used for auxiliary parameter input (switching menu layer display).
	CANCEL key	Used to cancel entered parameters.
	OK key	Used to fix the selected menu and parameters.
	HEATER key	Used to enter heater control menu.
	△ key	} Used to select a menu group and switch menu (selection, increment/decrement of value)
	▽ key	
	> key	
	< key	
③ Power switch	Power switch	Used to turn on or off the power of the printer.
④ LCD	LCD	Displays messages and status of the printer in alphanumeric characters, KANA characters and symbols (20 characters × 2 lines). The menu adopts a layered structure. Each menu can be accessed with the ▲, ▼, ◀, and ▶ keys.
⑤ Buzzer	Buzzer	Sounds when an error occurs or when invalid key operation is made or when the print head is not capped in the daily maintenance.

Options

Footswitch (IP7-014)

An optional footswitch to control the function of the take-up reel switch of the roll feed unit and take-up reel unit, as well as to control the function of the media feed switch by foot

Scroller (IP7-015)

An optional scroller available for both the roll feed unit and take-up reel unit

Exhaust attachment (IP7-013)

An optional unit to attach an exhaust duct to the printer

PS RIP (PhotoPrint 6 Standard SIIT Edition) (IP-550)

An optional RIP software program only for IP-7900

PS RIP (PhotoPrint 6 Server SIIT Edition) (IP-551)

An optional RIP software program only for IP-7900

Mesh printing kit (IP7-011)

Used to print mesh banner.

2

Basic operation

This section describes the basic operation of the printer such as power on / off and media replacement procedure.

(Content of this section)

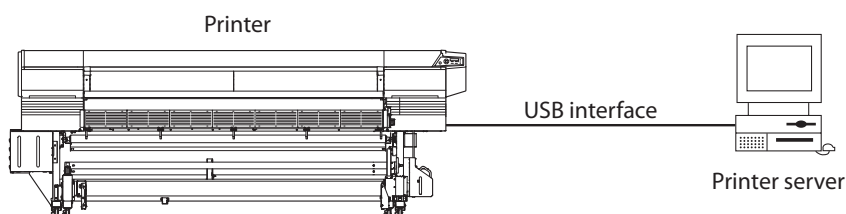
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Connection to a computer

This section describes the procedure to connect the printer to a computer.

System configuration (Connection example)

The printer can be connected as follows:



Connecting procedure

Connect the cable in the procedure below.

1 Turn off the power of the printer and the computer to be connected.

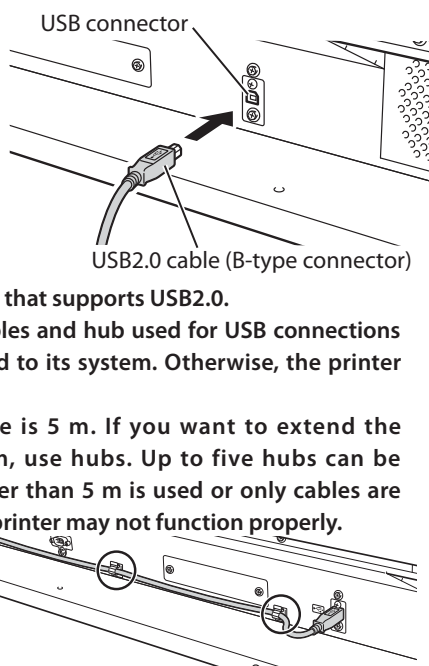
Note

- When the printer is connected to a PC, turn on the power of the printer first and turn off the power of the printer last.

2 Connect the dedicated cable to the USB connector at the rear of the printer.

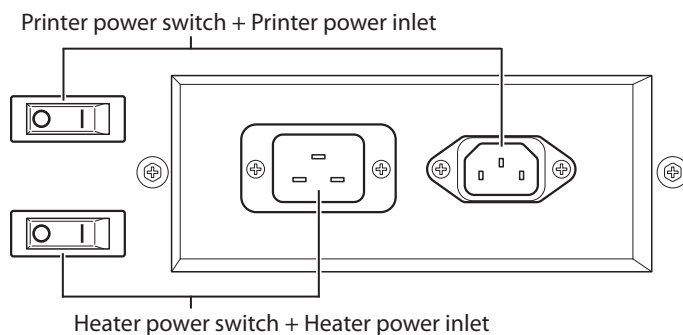
Note

- Use the supplied USB2.0 cable.
- When using a USB hub, use a product that supports USB2.0.
- Use USB-IF certified products for cables and hub used for USB connections and USB equipment to be connected to its system. Otherwise, the printer may not function correctly.
- The maximum length of one cable is 5 m. If you want to extend the connection length longer than 5m, use hubs. Up to five hubs can be connected. However, if a cable longer than 5 m is used or only cables are simply connected to each other, the printer may not function properly.
- To protect the USB connector, clamp the USB2.0 cable to the printer body as shown in the right figure.



Power ON/OFF procedure

The printer is provided with two power lines. Note that both of them are 200 VAC.

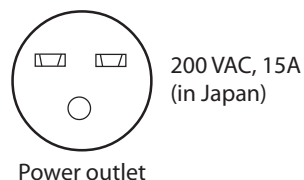
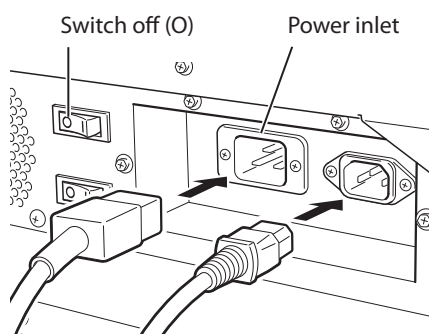


Turn on the Printer power switch and Heater power switch first, and then use the power switch on the operation panel of the printer to turn on or off the power.

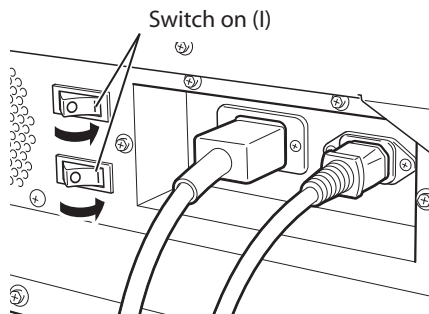
Power-on procedure

Connect the power cables in the following procedure.

- 1 Check that the Printer and Heater power switches on the rear panel of the printer are off (O), and then connect the supplied two power cables between the power inlets of the printer and power outlets.



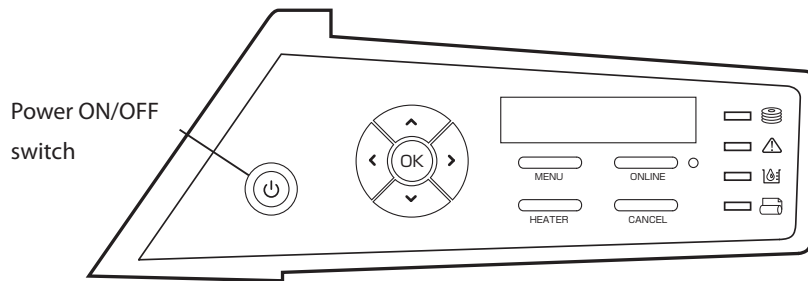
- 2 Turn on (I) the Printer and Heater power switches on the rear panel.



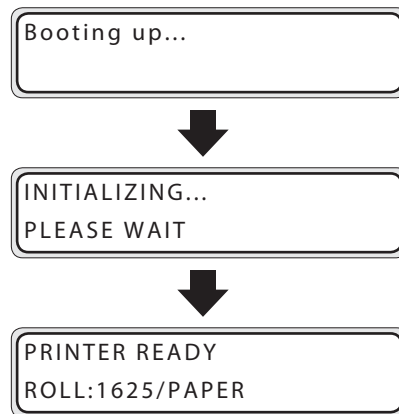
Note

- Do not use any power cable other than those supplied with the printer.
- The supplied power cables are for 200 VAC only. Note that the shape of the plug differs from that for 100 VAC.
- Be sure to clamp the power cables with cable clamps. Otherwise, they may be caught by the scroller resulting in electric shock or damage to the printer.

3 Turn on the power switch on the operation panel.



When the power switch is turned on, the printer performs the power-on self-diagnostic test and displays the following message on the operation panel.



Note

- Except for emergency, turn off the power while a message "PRINTER READY" is displayed. If the power is turned off unnecessarily when the printer is performing "INITIALIZING..." or "CLEANING," the ink may drip or the print head may be damaged or saved parameters may be lost.



- If the POWER LED on the operation panel does not light even when the Printer and Heater power switches at the rear of the printer and the power ON/OFF switch on the operation panel are turned on, the power supply has a problem.
- When an abnormality is detected during the power-on self-diagnostic test, an error message appears on the LCD.
Take appropriate measures referring to [Section 5 Getting troubled].

Power-off procedure 1

* When rebooting the printer within 20 hours

- 1 To turn off the power of the printer without fillcap operation, keep pressing the power ON/OFF switch on the operation panel and the **CANCEL** key simultaneously for 2 to 3 seconds.



SHUTTING DOWN
PLEASE WAIT

The message is displayed on the LCD as shown above, indicating that the shutdown process is in progress. The power is turned off after the shutdown process is completed.

Use this power-off procedure when an error or host communication error has occurred.

Power-off procedure 2

* When leaving the printer in power-off state for more than 20 hours

- 1 To turn off the power of the printer, keep pressing the power ON/OFF switch on the operation panel for 2 to 3 seconds.



SHUTTING DOWN
PLEASE WAIT

The message is displayed on the LCD as shown above, indicating that the shutdown process is in progress. The power is turned off after the shutdown process is completed.

To keep the print head in good condition at shutdown, the fillcap operation (the cap is filled with ink) is performed.

Note

- Use the Printer and Heater power switches at the rear of the printer only when the printer power must be completely turned off such as movement, connection to a computer, installation of built-in parts and maintenance.
- When turning on the power again, wait for more than 10 seconds after the power switch is turned off.
- To keep the print head in good condition, the printer performs the fillcap operation automatically 72 hours after the printer enters the standby state, and then every 3 days. The printer power should be kept on for the fillcap operation.
- The fillcap operation is effective for head guard, but it consumes extra ink.

Media installation and removal

The following three methods are provided to supply media to the printer.

- **Roll feed:** For normal supply of media from the scroller
- **Double-sided media feed:** For double-sided printing (⇒Section 4)
- **Cut-sheet feed:** For cut-sheet supply

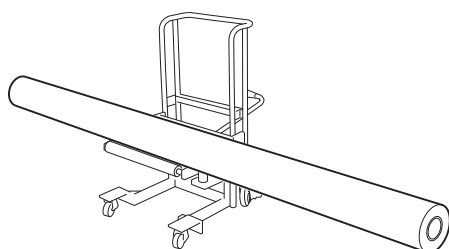
This section describes roll feed and cut-sheet feed.

2

Basic operation

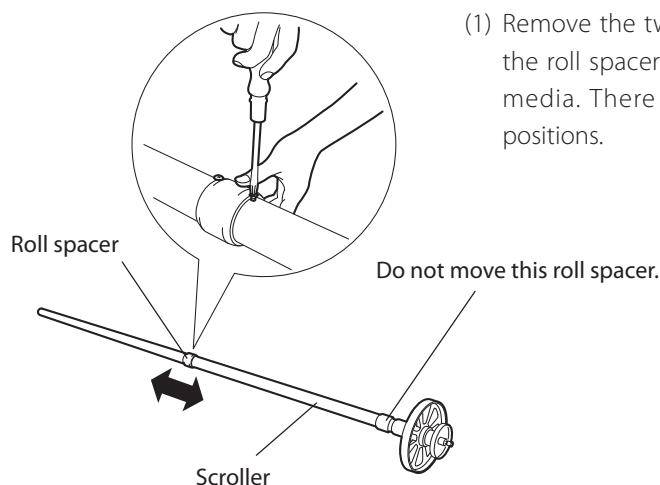
Roll media installation procedure

- 1 Put the media on the table.



If you want to use a dolly, contact us. We have a recommend product.

- 2 Adjust the roll spacer position according to the media width.



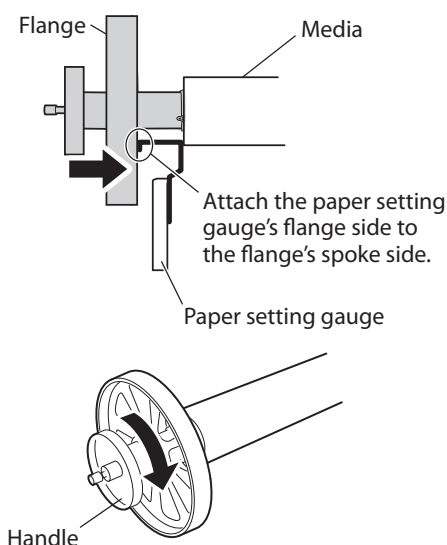
- (1) Remove the two screws and move the roll spacer to the center of the media. There are three screwing positions.



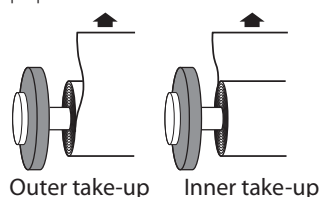
HINT

- The roll spacer prevents the paper tube from bending at the center due to the media weight.

-
- 3** Insert the scroller into the paper tube, determine the distance between the media edge and the flange, and then secure the main scroller.

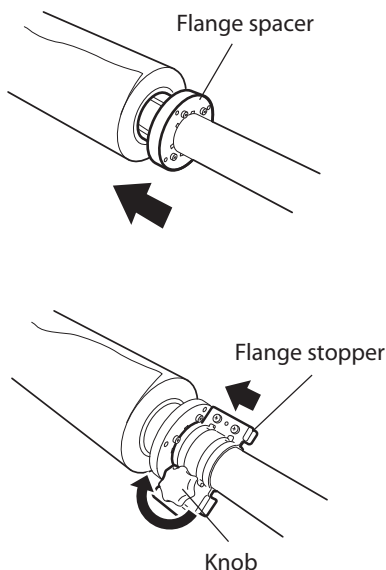


- (1) Check the media winding direction, and then insert the scroller into the paper tube.



- (2) Determine the distance between the media edge and the flange with the paper setting gauge.
- (3) Rotate the handle clockwise as far as it will go, and then secure the scroller at the point.

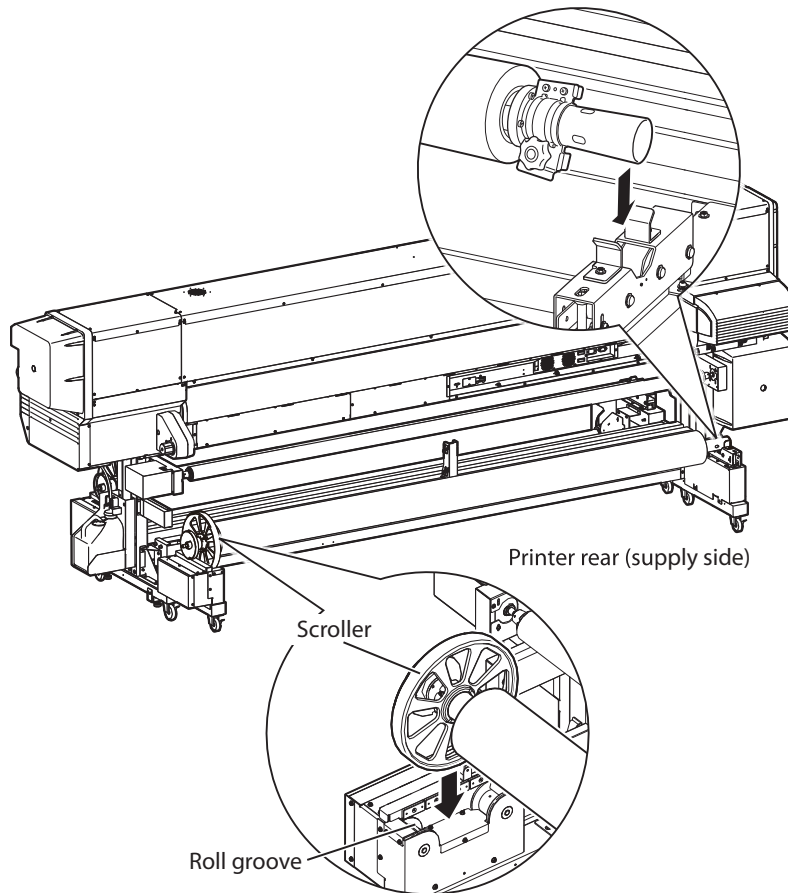
- 4** Attach the flange spacer and the flange stopper with the flange stopper matching with the claw of the flange spacer.



- (1) The flange spacer has teeth. Push it as far as it will go.

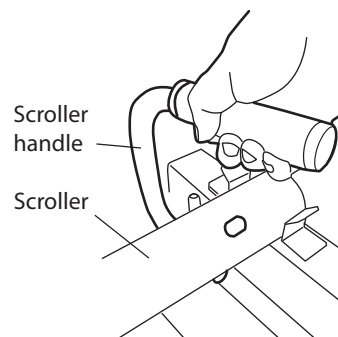
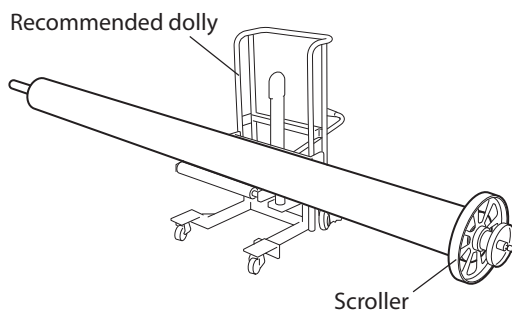
- (2) Match the flange stopper with the claw of the flange spacer, and then tighten the knob to secure the flange spacer and the flange stopper.

5 Attach the scroller by fitting it with the roll groove of the printer.

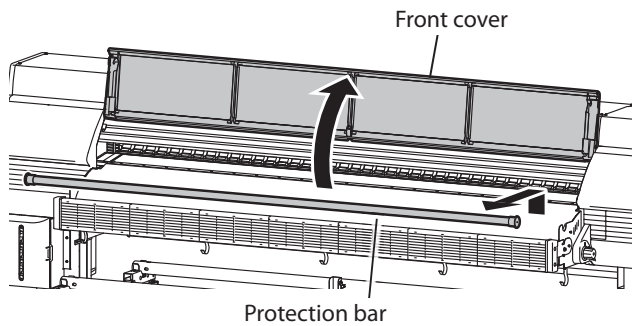


– To set the scroller alone:
Use a recommended dolly.

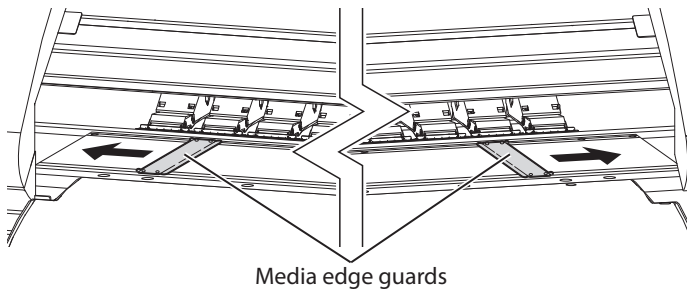
– To set the scroller manually by two persons:
Use the supplied scroller handle.



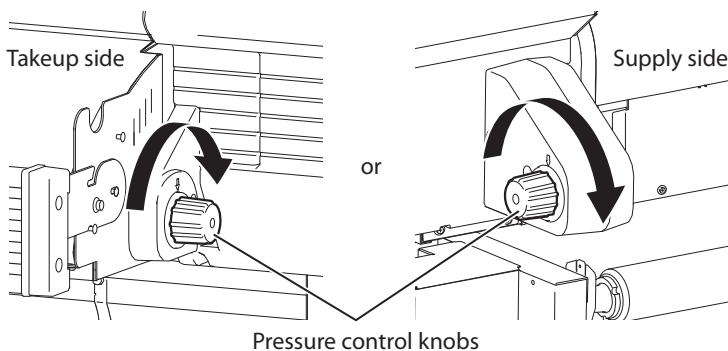
-
- 6** Remove the protection bar and open the front cover.



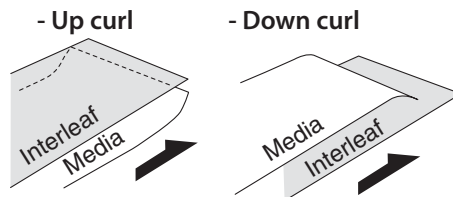
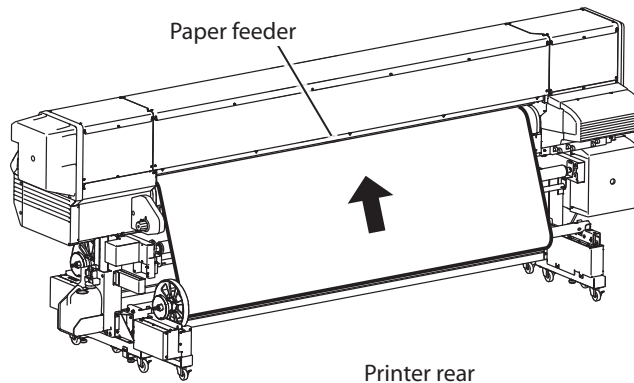
- 7** Move the media edge guards to each side so that they are not under the media.



- 8** Rotate the pressure control knob clockwise to raise the pressure roller.



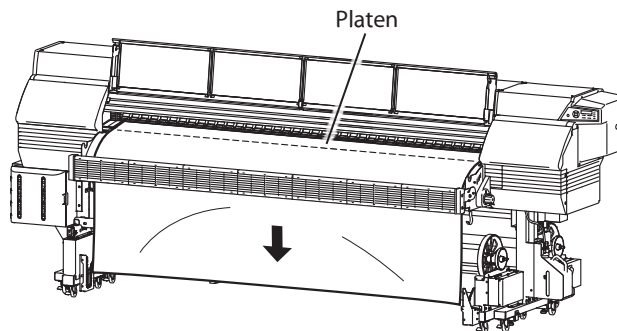
- 9** Insert the media end into the paper feeder while smoothing out the media by hand to prevent wrinkles.



If it is hard to insert the media end into the paper feeder due to a curl of the media, interpose an interleaf and insert the media end under the interleaf as shown in the left figure.

- 10** Feed the media until the media end almost reaches the floor.

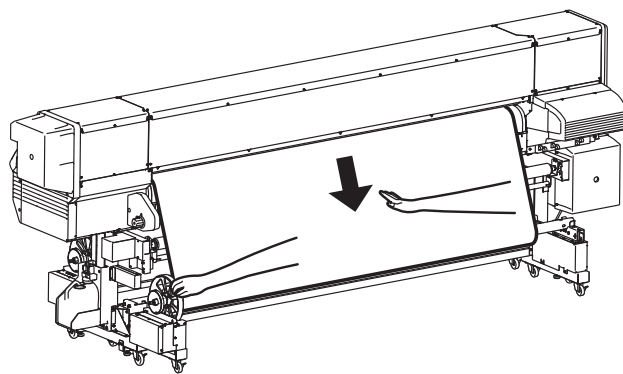
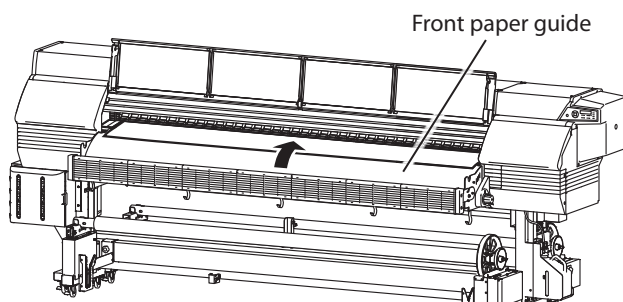
In this state, smooth out the media toward the both sides on the platen to make the media center tense.



Note

- If the media is set with a distortion or wrinkles, this may cause a media jam or skew.

11 Feed back the media to the top of the front paper guide.

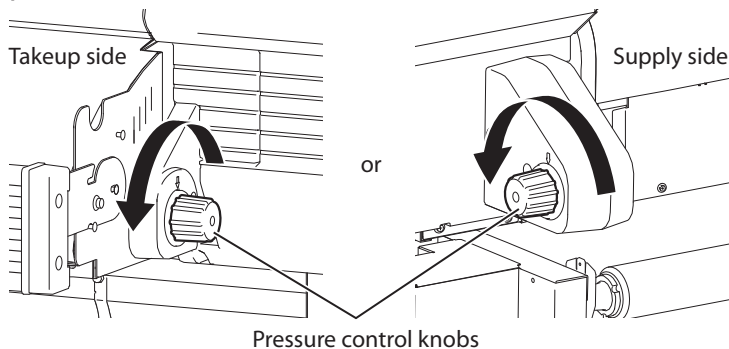


Feed back the media while pressing the center of the media gently at the supply side.



HINT – Step 11 is important to set the media properly.

12 Rotate the pressure control knob counterclockwise to lower the pressure roller.

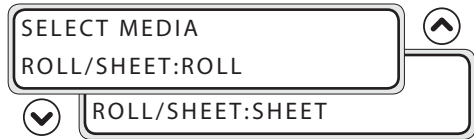


13 Set the media edge guards and close the front cover.

CHECK EDGE GUARD
*OK?

Check that the media edge guards are not under the media or thick media is not caught by inserting it forcibly. After confirming visually that the media edge guards are properly set, press the **OK** key.

14 Select roll media or cut-sheet media.



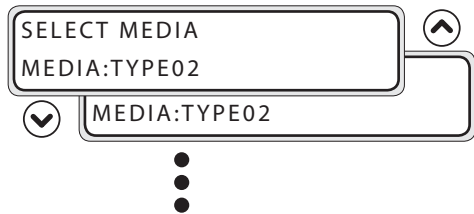
Either [roll] or [sheet] can be selected with the key or key.

Here, select [roll] and press the key.

(To return to the media selection, press the key.)

15 Select the type of media.

Select the registered type of media with the and keys and press the key. (☞P.3-30 [MEDIA REG MENU])



HINT To register new media

[NEW MEDIA ENTRY] is displayed at the end of the registered media.

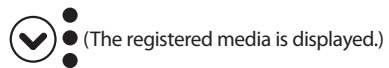
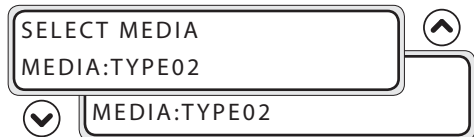
Press the key to enter MEDIA REG MENU.

The media registration procedure is the same as the registration from the registration menu.

(☞P.3-30 [MEDIA REG MENU])

Press the key to return from the media registration menu to the media type selection menu.

To return to the value before input, press the key.



16 Enter the remaining media.

Enter the remaining roll media loaded on the printer. (☞P.3-28 [MEDIA MENU])



Note

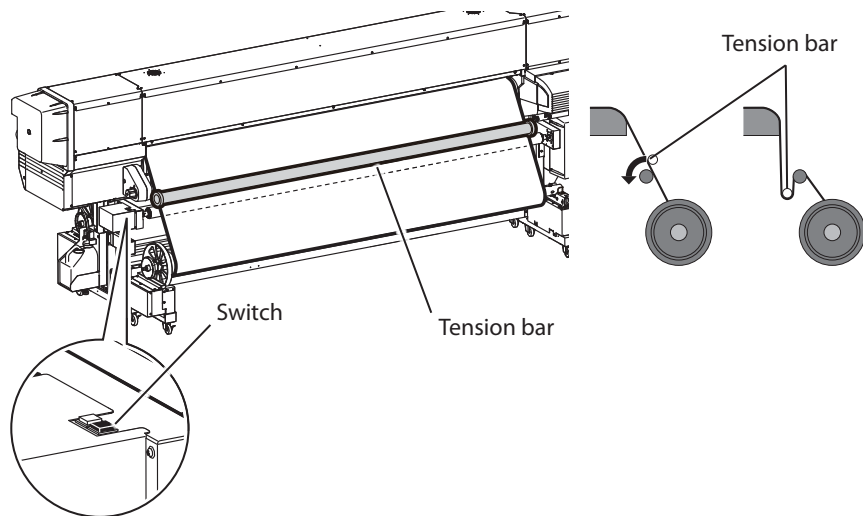
- After installing the media, check whether the media on the platen has no float or wrinkles.

17 This sign is displayed when the slack is insufficient.

CHECK
SLACKEN MEDIA

- In case of use of sheet media, this message is not displayed.
- If the media slackness is insufficient, the next operation will not be started.

18 Press the tension bar to the peel roller's upper part. Then create a slack between the platen and the peel roller, by carrying the tension bar to the rear side of the peel roller with a supply-side feed switch (black).



Adjust the tension bar length and decide whether to attach a flange or not, depending on the type and width of the media.

Examples of tension bar combinations

Size used	Tension bar length
L	48 inches (123 cm)
L, S	64 inches (164 cm)
L, S, S	80 inches (204 cm)
L, M, S, S	104 inches (264 cm)

<General media in TENSION winding mode>

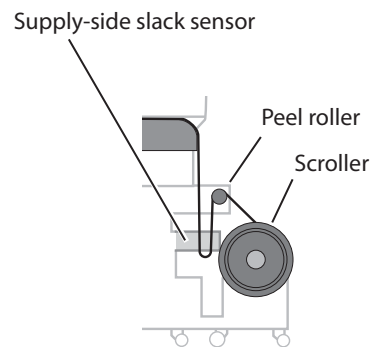
Usually put a tension bar suitable for the media width with a few exceptions.

<General media without take-up reel unit>

Put a tension bar which is half the width of the media.

<Vinyl chloride media>

Put an S size tension bar (without a flange) on the center of the slack.



Slacken off to a level lower than the supply-side slack sensor.

When the slack reaches the sensor detection area, the operation panel blips.

Note

- Be sure to rotate the panel with the supply-side feed switch. Do not rotate the peel roller manually, or the printer may be damaged.

19 Check the media setting.

Press the  key.

SET MEDIA
*OK?



PREPARING MEDIA
PLEASE WAIT

Note

- Rewind the printer's media completely at the end of the day. The PVC media installed and left for a night on the printer may cause media jam.

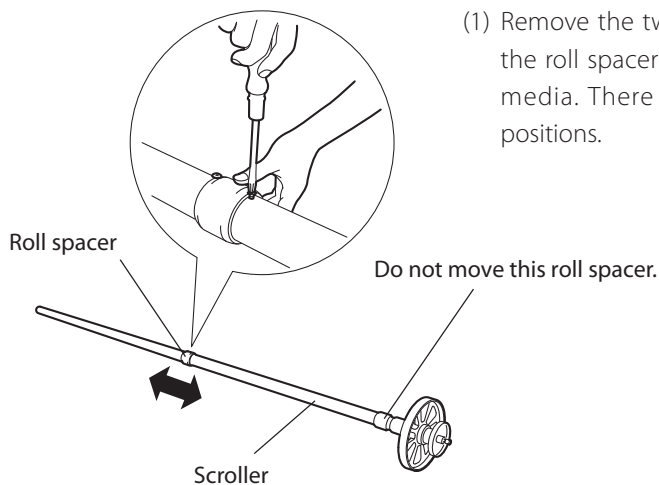
Procedure to install general roll media to the take-up reel unit

For the procedure for attaching the vinyl chloride roll media to the winding device, please refer to "Procedure to load PVC (Vinyl Chloride) roll media on TUR in LOOSE winding mode>" on page 2-22.

1 Adjust the roll spacer position according to the media width.

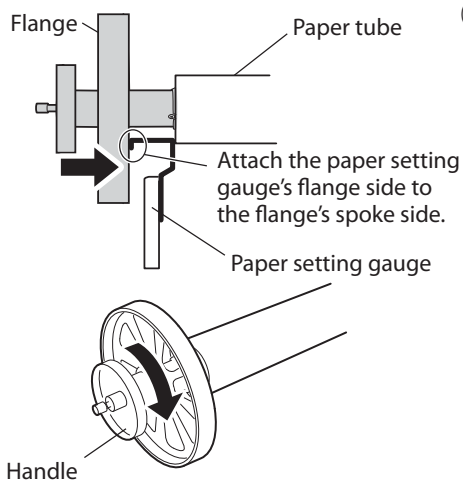


– The roll spacer prevents the paper tube from bending at the center due to the media weight.



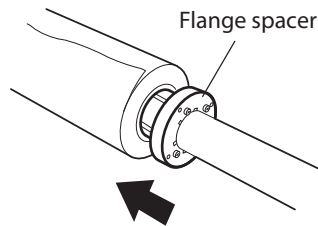
- (1) Remove the two screws and move the roll spacer to the center of the media. There are three screwing positions.

2 Prepare a paper tube and attach it to the scroller.

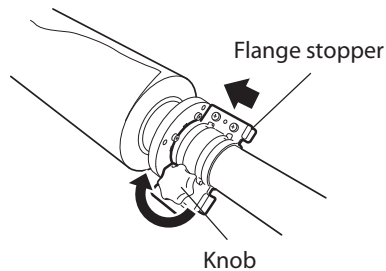


- (1) Determine the distance between the paper tube edge and the flange using the paper setting gauge, and secure the flange by rotating the handle.

- 3** Attach the flange spacer and the flange stopper with the flange stopper matching with the claw of the flange spacer.



- (1) The flange spacer has teeth. Push it as far as it will go.

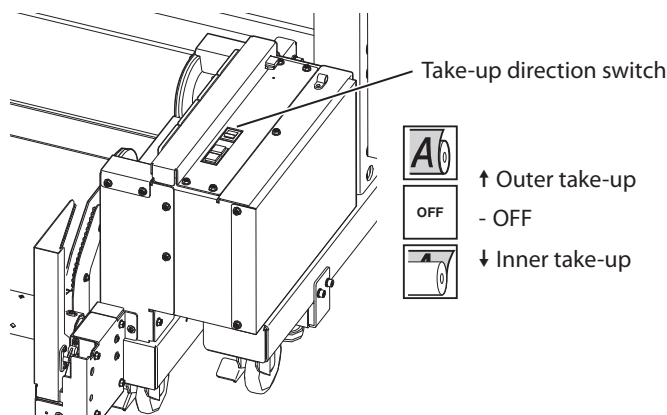


- (2) Match the flange stopper with the claw of the flange spacer, and then tighten the knob to secure the flange spacer and the flange stopper.

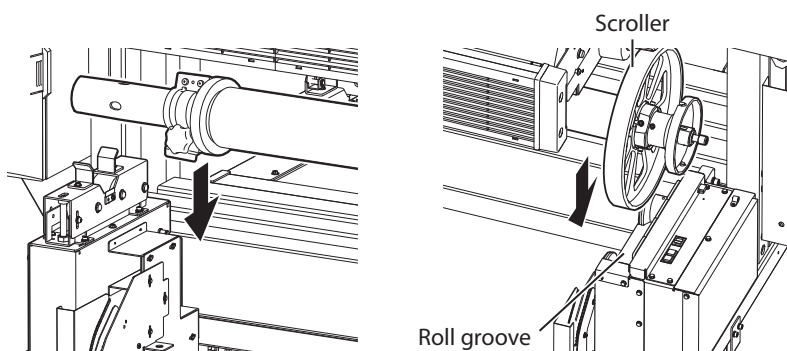
- 4** Set the take-up direction switch to OFF.

Note

- If the printer processing proceeds to the next step with the take-up direction switch set to ON, your hand may be caught as the scroller is not secured.

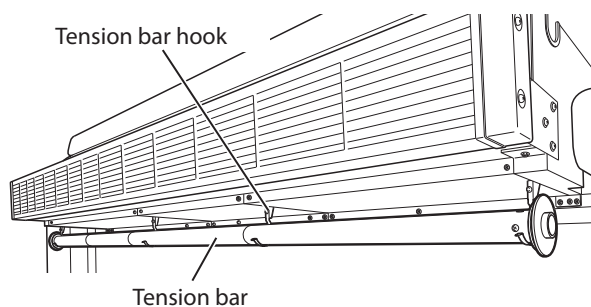


5 Attach the scroller by fitting it with the roll groove of the printer.



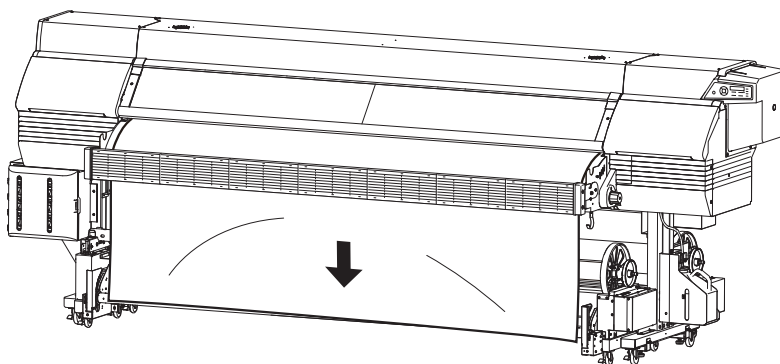
Note

- Hook the tension bar to the tension bar hook beforehand.

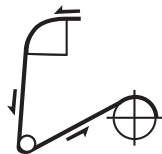
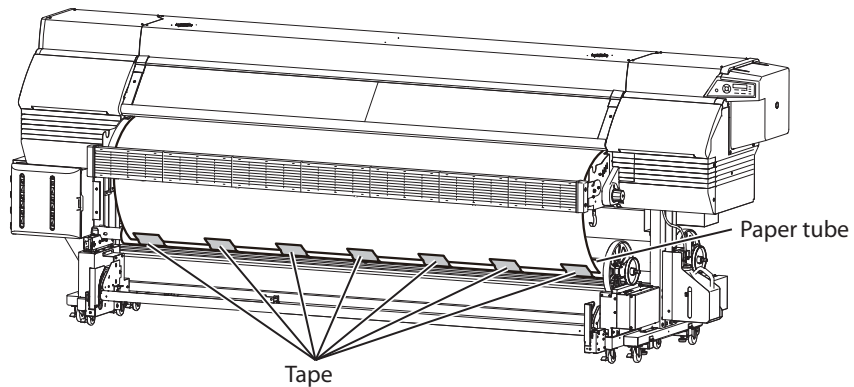


6 Feed the media with the FORM FEED MENU on the operation panel to an extent where it can be taken up.

(☞ P.2-97 [Feeding the media [Feed]])



7 Install the drawn media to the paper tube.



Inner take-up:
Media is taken up with its print surface comes inside.



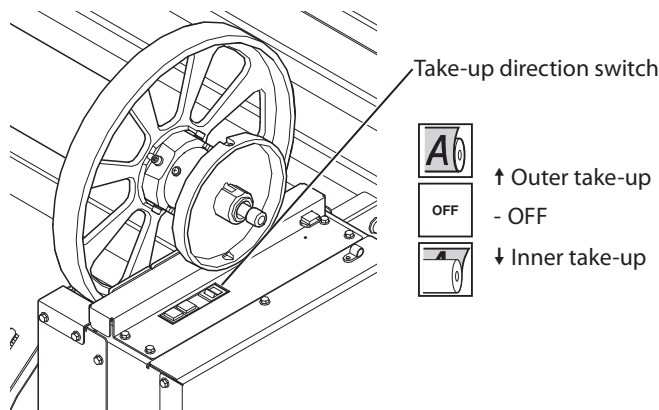
Outer take-up:
Media is taken up with its print surface comes outside.

- (1) Check the take-up direction, remove the slack of the media, and then make sure that the media is not deviated on the supply side and the takeup side.
- (2) With tape hold the media straight at the center, and then at the rest six positions in the direction from the media center to the media edge.

Note

- Be careful of the tape affixing direction on the takeup side.
- If the media is not installed straight to the paper tube, a skew of media may occur.

8 Set the take-up direction switch according to the take-up direction.



↑ Outer take-up



- OFF



↓ Inner take-up

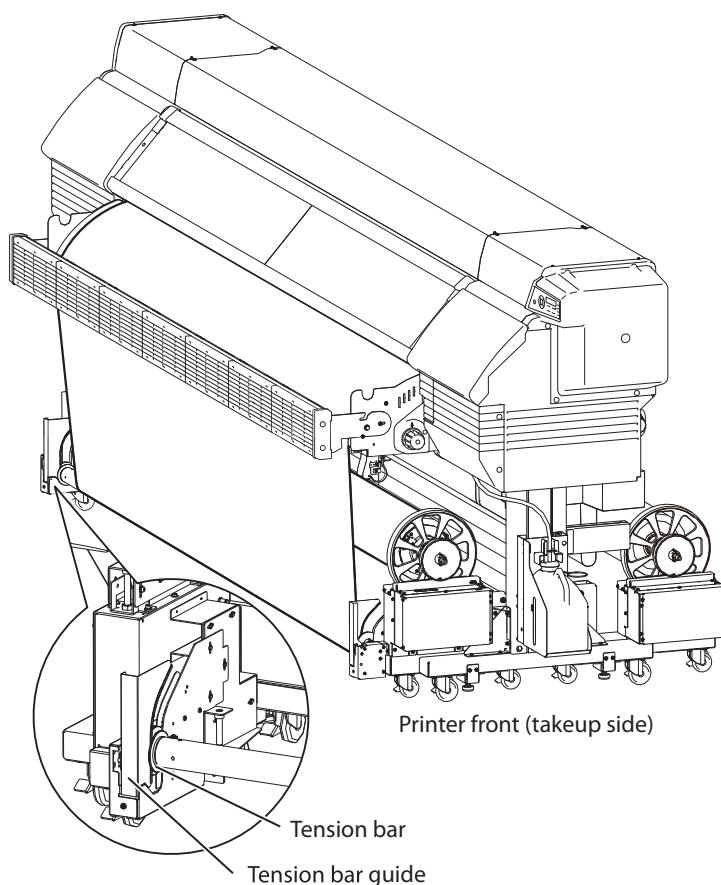
-
- 9** Advance the media with the FORM FEED MENU on the operation panel to wind it around the paper tube by one turn. Then set the take-up direction switch to OFF.

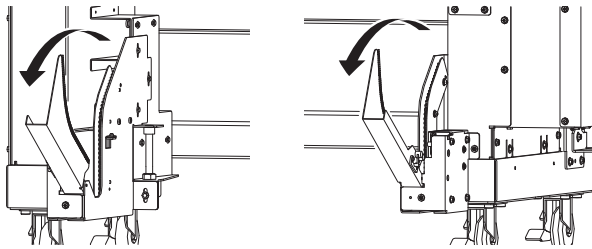
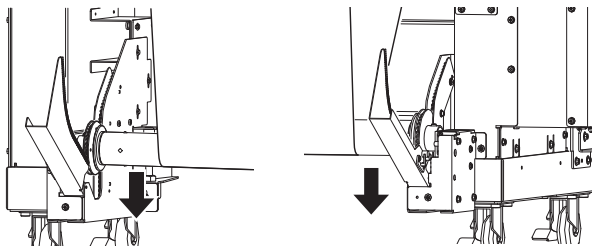
Note

- If the tension bar is attached without winding the media by one turn, the tape will peel off.

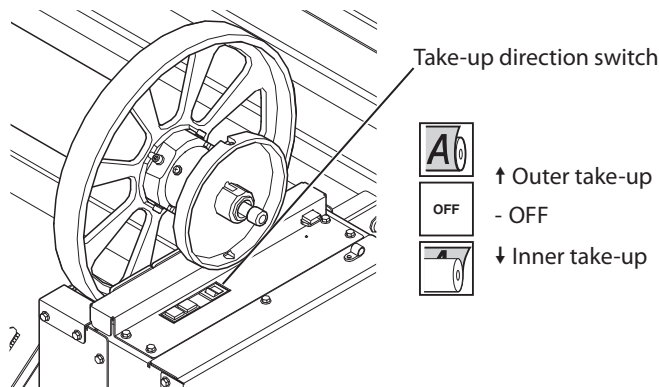
- 10** Advance the media with the FORM FEED MENU on the operation panel to an extent where a slack can be created.

Be sure to create a sufficient slack so that the tension bar is placed at the bottom of the tension bar guide.



11 Open the tension bar guide's cover.**12** Place the tension bar at the bottom of the tension bar guide.**Note**

- When the tension bar does not reach the tension bar guide's bottom, feed the media with the operation panel's FEED menu. Confirm that tension bar was placed securely at the tension bar guide's bottom.

13 Close the tension bar guide's cover.**14** Press the take-up direction switch according to the take-up direction.**Note**

- If the media slack is secured excessively, the take-up reel unit may keep winding the media for more than the prescribed time, and a take-up timeout error occurs. In such a case, turn off the take-up direction switch, and then press the switch again.

Procedure to load PVC (Vinyl Chloride) roll media on TUR in LOOSE winding mode

Apply the paper tube flange to wind the media such as PCV which may cause winding deviation frequently.

Set the paper tube flange directly to the scroller without spacers when the TUR-side paper tube is longer than supply-side media width.



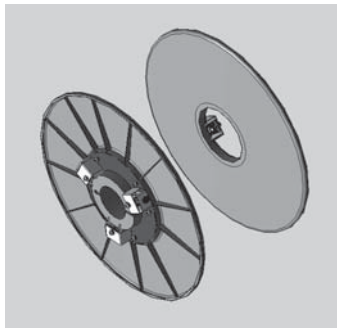
Rubber spacer A
(1 pc)



Rubber spacer B
(1 pc)



Rubber spacer C
(1 pc)

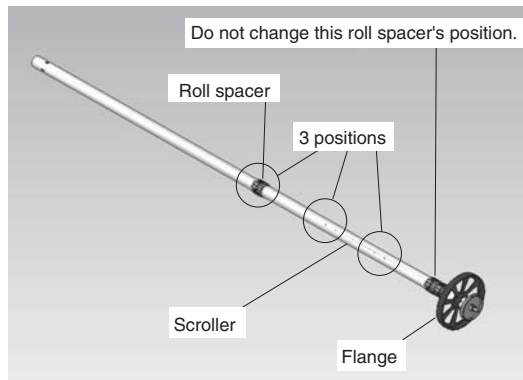


Paper tube flange (2 pieces)

1 Adjust the roll spacer's position corresponding to the media width.



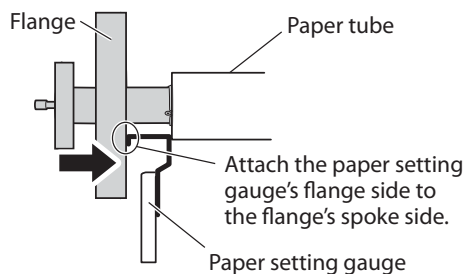
- Roll spacer is used to prevent the paper tube from sagging in the center under the media weight.



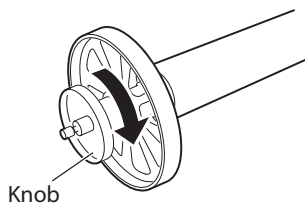
Remove two screws fixing the left roll spacer of the figure, and move the roll spacer to the center of the media.

Note that three positions are available to relocate the removed roll spacer. Select one position depending on the media width.

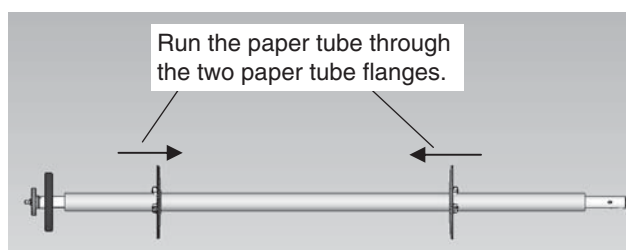
2 Set the paper tube to the scroller.



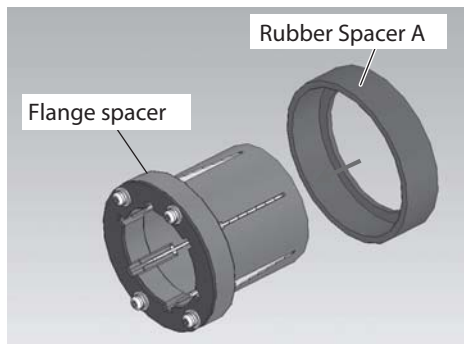
With a paper setting gauge, adjust the distance between the paper tube edge and the flange, then fix it by rotating the knob.



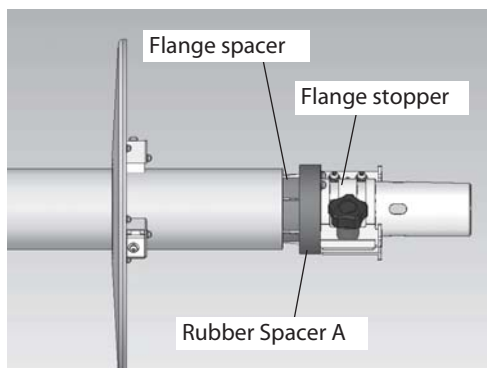
3 Run the paper tube through the two paper tube flanges so that each paper tube flange's fixing screw side would face outward.



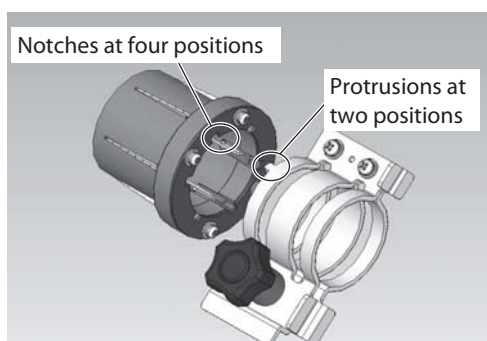
-
- 4** Confirm that the rubber spacer A is facing the correct orientation, and crown the rubber spacer A on the flange spacer.



- 5** Fix the flange spacer and the flange stopper on the paper tube.

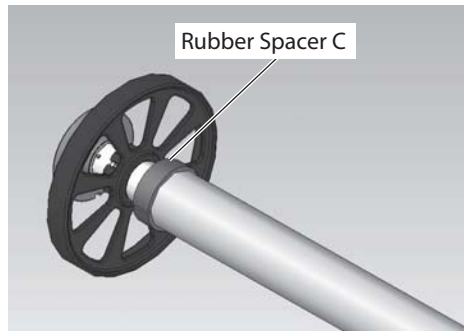


Push the flange spacer all the way in the paper tube.



Then insert and fix the flange stopper so that the flange stopper's protrusions fit in the notches.

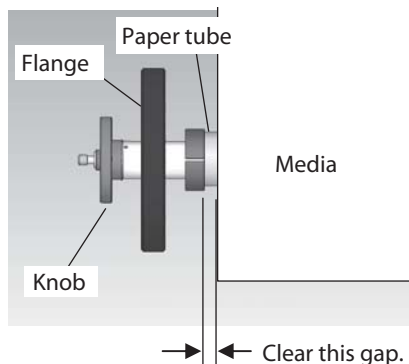
- 6** Fix the rubber spacer C to the scroller.



- 7** Mount the scroller to the TUR, which will make the operation easier from this step.

- 8** Unroll the media until the media can be wound with the operation panel's FEED menu.

- 9** Adjust the paper tube position.



Confirm that no gap is found between the left edge of the media fed at the step (8) and the paper tube's edge.

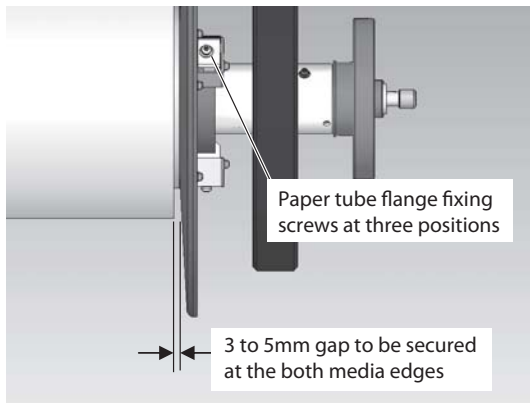
If a gap is found, adjust the paper tube position by loosening the knob and clear the gap.

Then fix the paper tube by rotating the knob.

10 Set the paper tube flange.

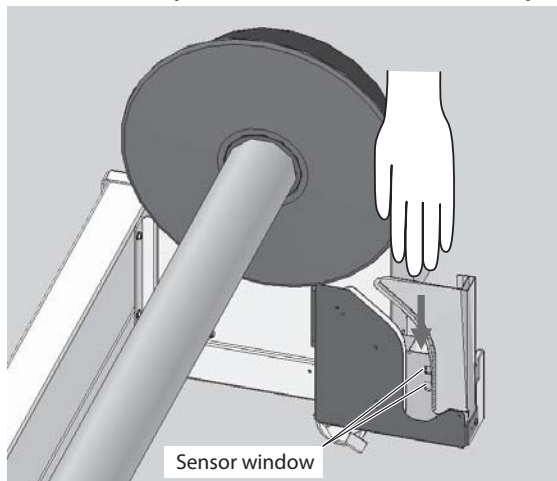
Slowly pull the media out straight, and fix the paper tube flange at the position, 3-5 mm from the media edge by evenly screwing the three screws at the paper tube flange's outer side.

Rotate the take-up roll referring to the NOTE 1 below, and confirm that the two paper tube flanges do not swing at all.



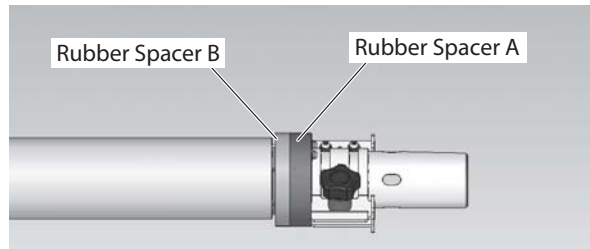
NOTE1

- Rotate the take-up roll with the procedure below.
- (a) Cover the sensor window by sliding your hand downward as shown by the arrow of the figure below. Note that the take-up roll is rotated only with the sensor's downstroke shielding.
- (b) By keeping the sensor window covered, the take-up roll rotates for 4 seconds and stops.
- (c) When the take-up roll needs to be rotated more, repeat the steps (a) and (b).



NOTE2

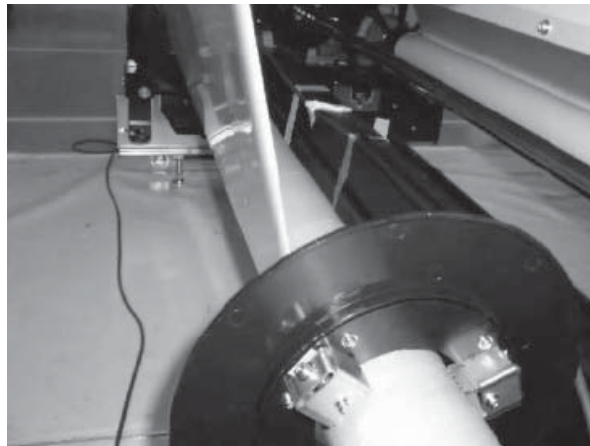
- When the paper tube's inner diameter is not sufficiently longer than the flange spacer's diameter, the flange spacer cannot be pushed all the way in the paper tube, and the gap may be found between the rubber spacer A and the paper tube edge. In such a case, to clear the gap set the rubber spacer B between the rubber spacer A and the paper tube.

**11** Attach the media to the paper tube.

Confirm that the media is wound in outer-side take-up mode. With adhesive tape, hold the media straight at the center, and then at the rest positions in the direction from the media center to the media edge.

NOTE

- Ensure that the media is attached with no slant nor slack which will cause the slanting feed.



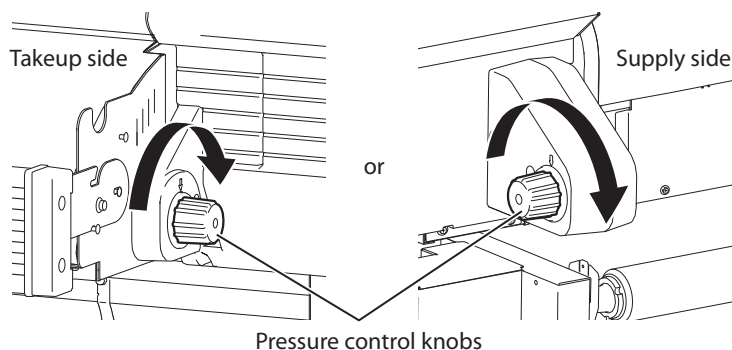
12 Feed the media with the operation panel's FEED menu, and take up the media on the paper tube for one turn or more.

13 Check the paper tube flanges' position, and adjust it if necessary.

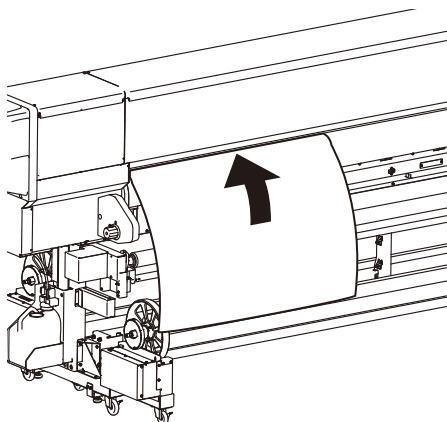
14 With the panel operation, set the printer to online.

Cut-sheet media installation/removal procedure

- 1 Open the front cover, and move the media edge guards to each side.
- 2 Rotate the pressure control knob clockwise to raise the pressure roller (Open).



- 3 Align the right end of the cut sheet with the guideline and insert the cut sheet into the paper feeder.

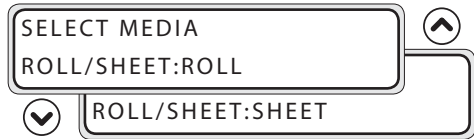


- 4 Rotate the pressure control knob counterclockwise to lower the pressure roller.
- 5 Set the media edge guards and close the front cover.

CHECK EDGE GUARD
*OK?

Check that the media edge guards are not under the media or thick media is not caught by inserting it forcibly. After confirming visually that the media edge guards are properly set, press the **OK** key.

6 Select roll media or cut-sheet media.



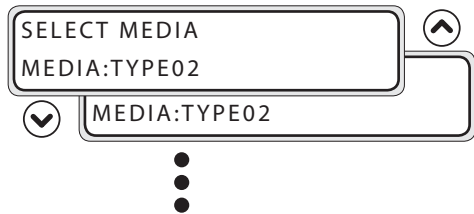
Either [roll] or [sheet] can be selected with the key or key.

Here, select [sheet] and press the key.

(To return to the media selection, press the key.)

7 Select the type of media.

Select the registered type of media with the and keys and press the key. (☞P.3-30 [MEDIA REG MENU])



HINT To register new media

A message "NEW MEDIA ENTRY" is displayed at the end of the registered media.

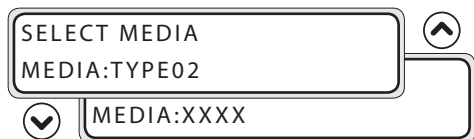
Press the key to enter MEDIA REG MENU.

The media registration procedure is the same as the registration from the registration menu.

(☞P.3-30 [MEDIA REG MENU])

Press the key to return from the media registration menu to the media type selection menu.

To return to the value before input, press the key.



(The registered media is displayed.)



(Enter the media registration menu.)

8 The media set operation starts automatically.



- When the media set operation is successfully completed, the printer returns to the online or offline state.
- If the media set operation is not completed, an error message appears. Retry the procedure beginning with step 1.

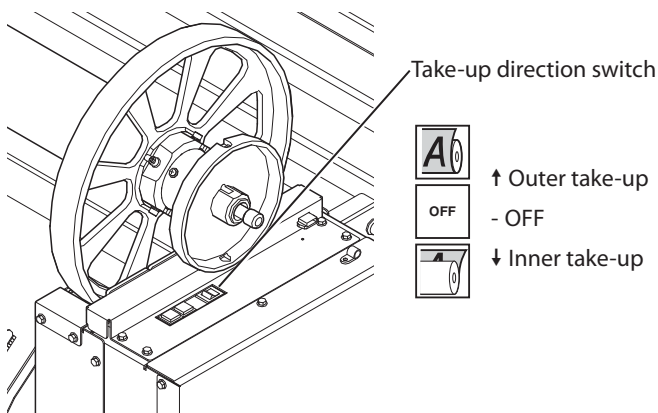
Note

- After installing the media, check whether the media on the platen has no float or wrinkles.

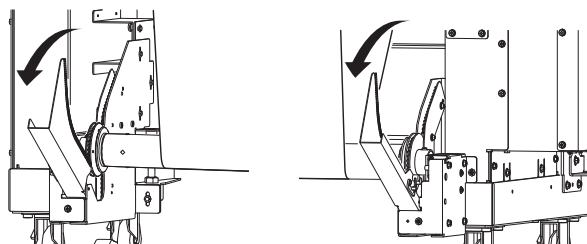
Procedure to remove media (scroller) from the printer

<Media at the take-up side>

- 1 Turn off the take-up direction switch.



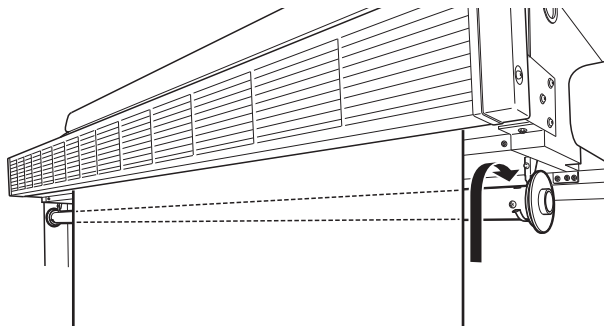
- 2 Open the tension bar guide's cover.



- 3 Place the tension bar at the tension bar hook.

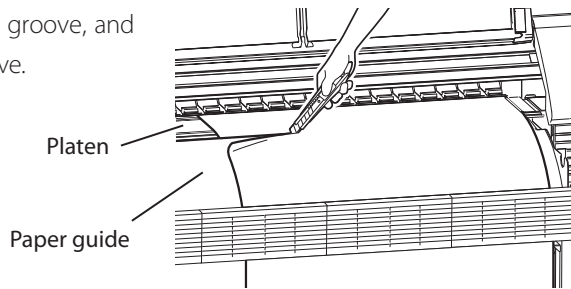
Detach the tension bar at the take-up sides.

In case of vinyl chloride media, this procedure is not necessary at the take-up side, because no tension bar is used there.



4 Open the front cover, and then cut the media.

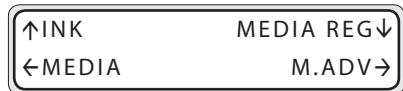
Set the cutter to the cutter groove, and cut the media along the groove.



Note

- A net is spread out on the feeding side and take-up side paper guides, respectively so that the media will not adhere to the guides.
Do not remove these nets.
- When cutting the media, be careful not to damage the paper guide net.
- Pay attention not to drop the used media so as to avoid messing up the floor.

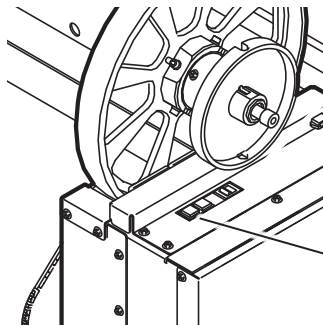
5 Set the printer to the offline state by pressing the **ONLINE** key.



6 Press the key.

The TUR's take-up switch is activated by selecting media and setting the take-up direction switch to ON.

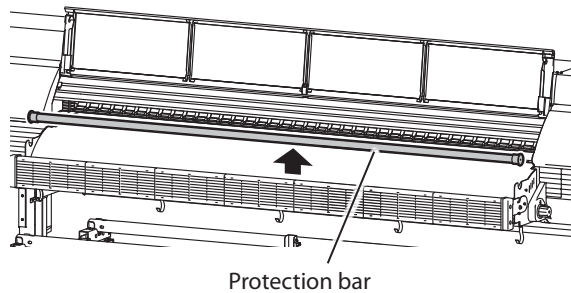
7 Rotate the scroller the wind switch (black) at the supply side to take up the media.



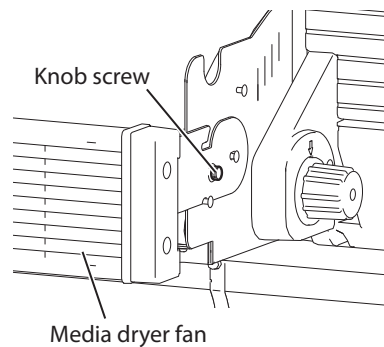
Take-up reel switch (Black)



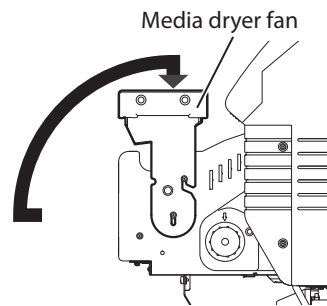
8 Detach the protection bar.



9 Loosen the right and left knob screws next to the movable media dryer fan.



10 Pull the media dryer fan toward you and turn it upward 90 degrees.

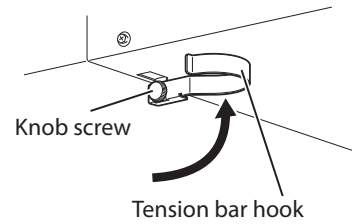


Note

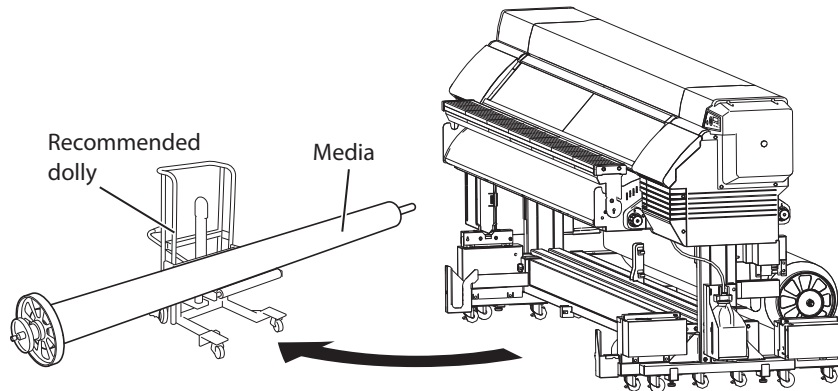
- When the media dryer fan is turned upward, it slightly goes down and is fixed. To return the fan to its original position, pull it up and turn it toward you, and then push it and secure it with the knob screws.
- Turn the media dryer fan carefully so that the pressure control knob and surrounding sheet metals do not get hung up on the media dryer fan connecting cable.

11 Remove the tension bar from the tension bar hook.

- 12** Loosen the knob screw of each tension bar hook and extend it laterally.

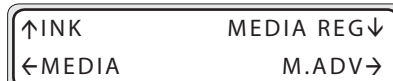


- 13** Set a dolly under the media and lift the media to remove it.



<Media at the supply side>

- 1 Set the printer to the offline state by pressing the **ONLINE** key.

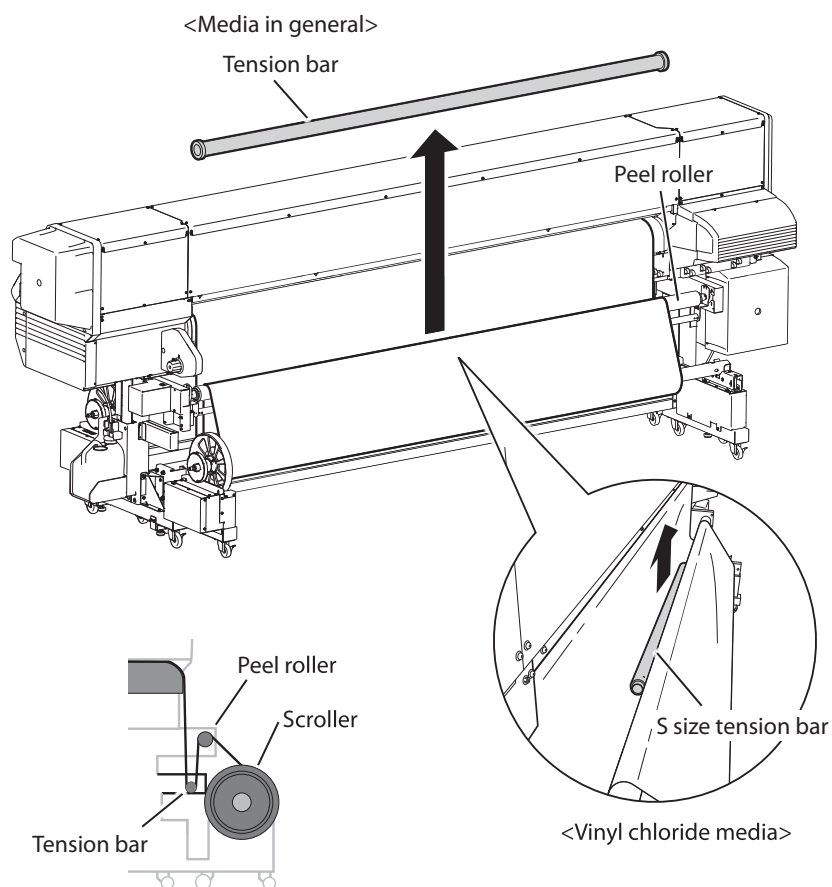


- 2 Press the  key.

The TUR's take-up switch is activated by selecting media.

- 3 Lift the slackened part and remove the tension bar at the supply side.

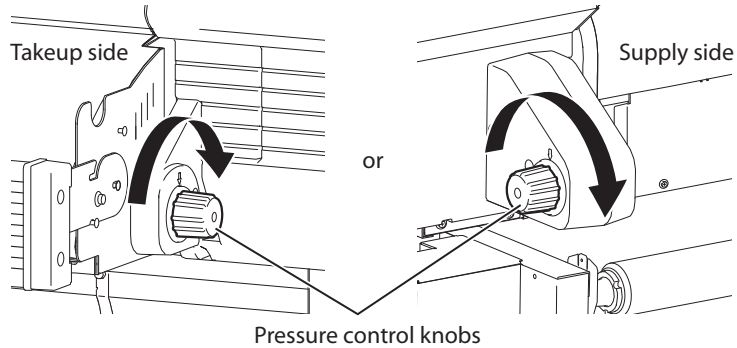
Printer rear (supply side)



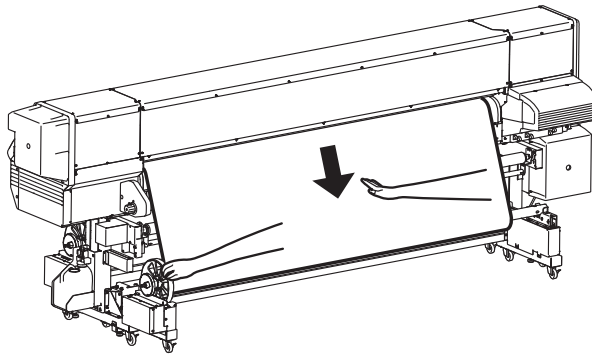
CAUTION

- Do not rotate the peel roller, or the printer may be damaged.

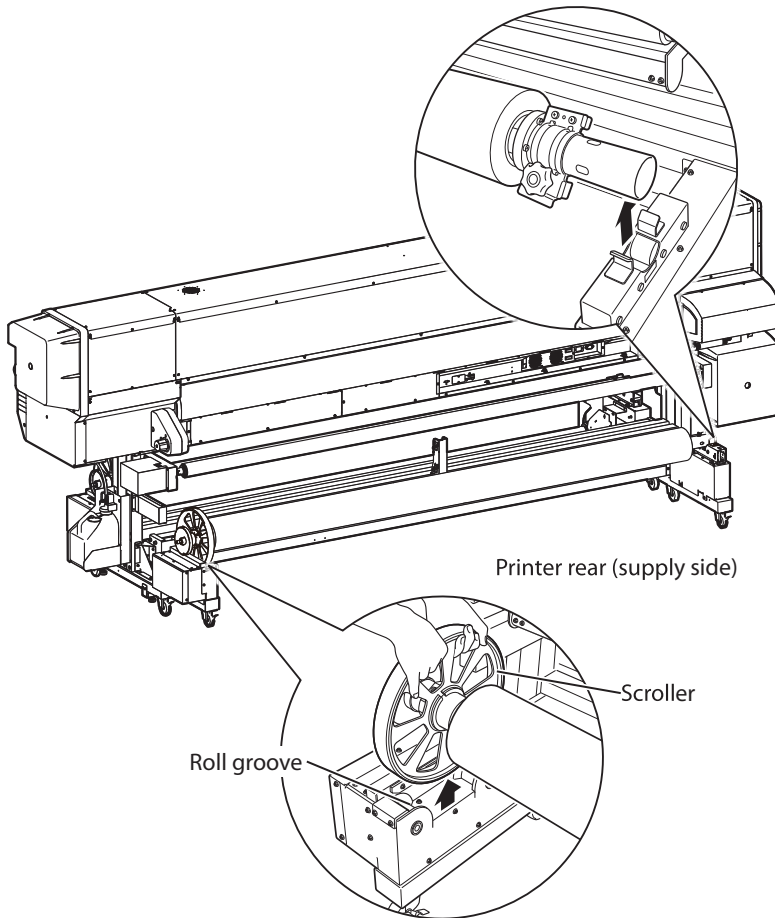
- 4** Rotate the pressure control knob clockwise to raise the pressure roller.



- 5** Rotate the scroller manually to take up the media.

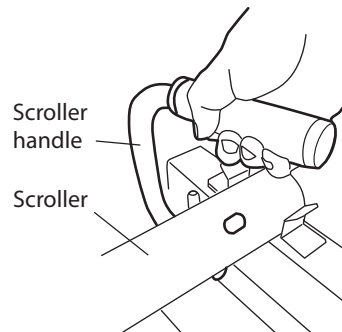
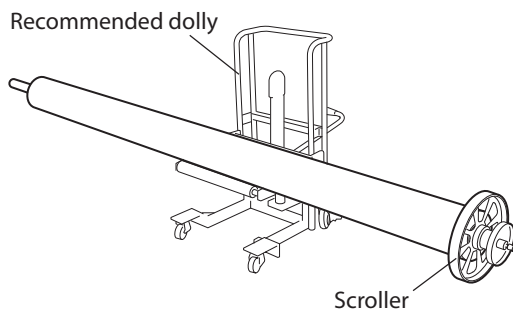


6 Remove the scroller of the printer.



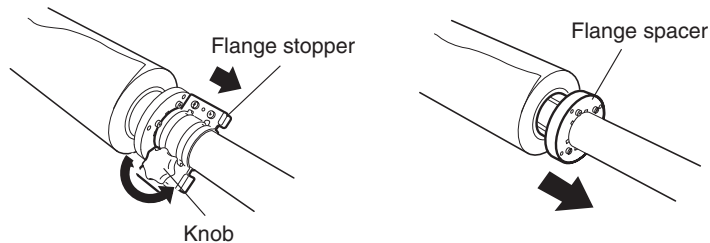
– To set the scroller alone:
Use a recommended dolly.

– To set the scroller manually by
two persons:
Use the supplied scroller handle.

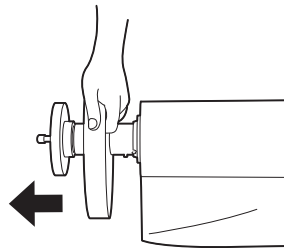


Procedure to remove media from the scroller

- 1 Put the media roll on the table.
- 2 Remove the flange stopper and the flange spacer.



- 3 Remove the scroller.



- (1) Rotate the handle counterclockwise.
- (2) When a gap is generated between the handle and the scroller shaft, remove the scroller.

Note

- Do not touch the claw of the scroller.

When no media is loaded on the scroller

- 1 The message appears on the LCD.

NO MEDIA LOADED
LOAD MEDIA

- 2 Replace media following the media installation/removal procedure.

When replacing roll media due to jamming

Refer to [Section 5 When encountering a problem (How to clear media jams)].

Setting media advance correction values



– The factors that change the media advance correction values are as follows.

- Change of print mode
- Pressure change using the pressure control knob
- Use/not use of take-up reel unit
- Type of media
- Difference in media feed route

1 Set media longer than 4 m.

Obtain the rough media advance correction value in [ROUGH] and determine the media advance correction value in [DETAIL]. Both [ROUGH] print and [DETAIL] print need paper of about 90 cm in length for one-time print. (To cancel printing of media advance correction pattern, press the **CANCEL** key.)

2 Set the printer to the offline mode.

(Press the **ONLINE** key.)

↑INK	MEDIA REG↓
←MEDIA	M.ADV→

3 Press the **➤** key and then **OK** key to display the media advance correction pattern.

Select the print mode to be used normally for the media to set the media advance correction value.

(For details of print mode, refer to **P.4-2 [Print mode]**.)

#MEDIA ADV PRINT
>ROUGH(NORMAL1)

Note

- To obtain the media advance correction value in DENSITY2 mode, apply the media advance correction patterns, ROUGH(QUALITY) or DETAIL(QUALITY).

4 Select the rough print mode with the **▼** and **▲** keys, and press the **OK** key.

#MEDIA ADV PRINT
*OK?

- 5** Press the  key. Then the media advance correction pattern [ROUGH] is printed in the selected print mode.

```
#MEDIA ADV PRINT
*EXECUTING
```

- 6** Select a rough media advance correction value from the print result.

Nine patterns are printed with 0.5% increments within a range of 99.00% to 101.00%. Select a rough media advance correction value from them.

- 7** Press the  key and then the  key to display the media advance correction value.

```
#MEDIA ADV VALUE
>01:099.80%
```

- 8** Enter the media advance correction value and press the  key.

Align the digit with the  and  keys and set the value with the  and  keys.

- 9** Press the  key and then the  key to display the media advance correction pattern.

```
#MEDIA ADV PRINT
>ROUGH(NORMAL1)
```

- 10** Select the detail print mode with the  and  keys.

Select the same print mode as for [ROUGH].

```
#MEDIA ADV PRINT
>DETAIL(NORMAL1)
```

- 11** Press the  key twice to print the media advance correction pattern [DETAIL].

```
#MEDIA ADV PRINT
*EXECUTING
```

12 Select the detail media advance correction value from the print result.

Five patterns are printed for the entered rough media advance correction value with 0.1% increments within a range of -0.20% to +0.20%. Select an appropriate media advance correction value from them.

13 Press the key and then the key to display the media advance correction value.

MEDIA ADV VALUE
>01:099.80%

14 Enter the determined media advance correction value and press the key.

Align the digit with the  and  keys and set the value with the  and  keys.

15 Press the key to return to the offline state.

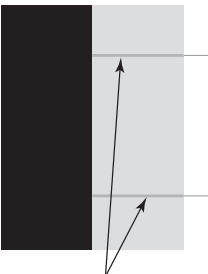
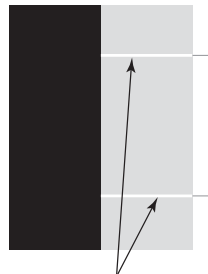


HINT

– For changing media advance correction value during printing, refer to  P.3-8.

* How to analyze the media advance correction pattern

Analyzing the media advance correction pattern is explained using an example of black (K) color.

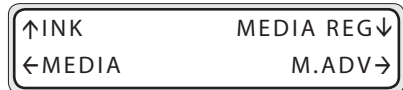
In case of small media advance correction value	In case of appropriate media advance correction value	In case of large media advance correction value
99.00%	100.25%	101.00%
		
When observing the horizontal lines, if the splices of paths are overlapped (dense), the media advance correction value is small.	When the splices of paths are not overlapped and even, the media advance correction value is appropriate.	When the splices of paths are separated (light), the media advance correction value is large.

Adjusting the print head position [ADJUST PH POS]

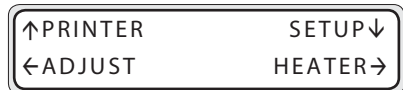
This function adjusts each print head's position in the scanning direction, media right to left direction, based on the K print head position. Input the correction value based on the print of [ADJUST PH POS].

STEP1 Print the test pattern for [ADJUST PH POS]

- 1 Set the printer to the offline state.
(Press the **ONLINE** key.)



- 2 Press the **MENU** key twice to display the menu group that includes ADJUST.



- 3 Press the **←** key and the **OK** key to display NOZZLE PRINTS.



- 4 Press the **▼** key to select ADJUST PH POS, and press the **OK** key.



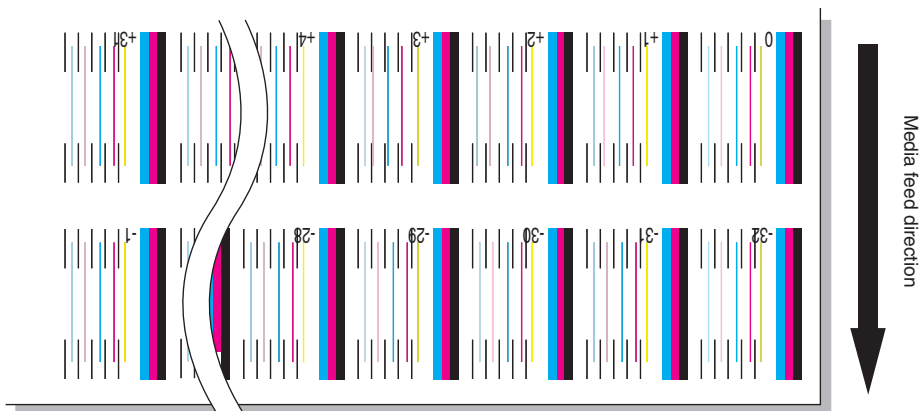
- 5 Confirm that the NOZZLE PRINTS are ready.



- 6** By pressing the **OK** key, print the test pattern below.

#NOZZLE PRINTS
* EXECUTING

- [ADJUST PH POS] print sample



STEP2 Inputting the correction value

- 7** Select the menu group that includes ADJUST, and press the **▼** key to display PH TO PH VAL.

#PH TO PH VAL
#Y >+00

- 8** Move the cursor with the **➤** key, and select the print head color with the **▲** and **▼** keys.

#PH TO PH VAL
* Lc >+00

Here describes a sample operation to adjust the Lc print head.

- 9** Press the **OK** key to determine the print head for the correction with the parameter input.

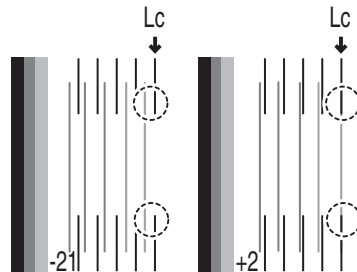
#PH TO PH VAL
#Y ** +00

- 10** Within the ADJUST PH POS patterns, select a pattern where the reference K print head's line and the determined print head's line overlap with the least misalignment.

Then input the selected pattern's value, press the ◀ and ▶ keys to align the digit, and the ▲ and ▼ keys to input the value.

Input the value of the test pattern where the K print head's line and the determined print head's line overlap with the least misalignment.
For example, on the right test patterns for Lc print head, the two lines misalign at -21 while they overlap at +2. So input +2 for the correction value.

#PH TO PH VAL
#Lc > +02



- 11** Press the OK key.

#PH TO PH VAL
#Lc > +02

- 12** Input the correction values for the other print heads by repeating the steps 6 to 10.

Adjusting the print head nozzles' R/L position [ADJUST PH R/L]

This function adjusts each print head's right and left nozzles position, based on the print of [ADJUST PH R/L].

STEP1 Printing the test pattern for [ADJUST PH R/L]

- 1** Set the printer to the offline state.
(Press the ONLINE key.)

↑INK MEDIA REG↓
←MEDIA M.ADV→

- 2** Press the MENU key twice to display the menu group that includes ADJUST.

↑PRINTER SETUP↓
←ADJUST HEATER→

- 3** Press the  key and the  key to display NOZZLE PRINTS.

#NOZZLE PRINTS
* NOZZLE PRINT

- 4** Press the  key to select ADJUST PH R/L, and press the  key.

#NOZZLE PRINTS
* ADJUST PH R/L

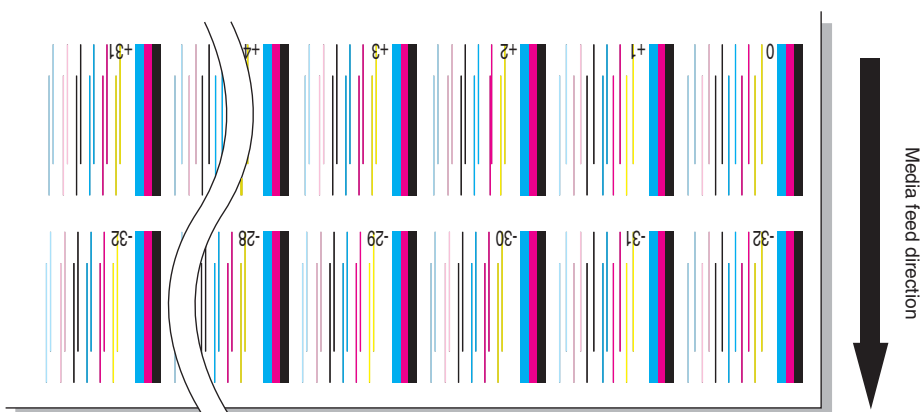
- 5** Confirm that the NOZZLE PRINTS are ready.

#NOZZLE PRINTS
* OK?

- 6** By pressing the  key, print the test pattern below.

#NOZZLE PRINTS
* EXECUTING

• [ADJUST PH R/L] print sample



STEP2 Inputting the correction value

- 7** Select the menu group that includes ADJUST, and press the  key to display PH R/L ADJ VAL.

```
# PH R/L ADJ VAL
#Y    >+00
```

- 8** Move the cursor with the  key, and select the print head color with the  and  key.

```
# PH R/L ADJ VAL
# M    >+00
```

Here describes a sample operation to adjust the M print head.

- 9** Press the  key to determine the print head for the correction with the parameter input.

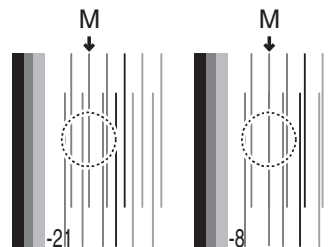
```
# PH R/L ADJ VAL
# M    * +00
```

- 10** Within the ADJUST PH R/L patterns, select a pattern where the print head's two lines overlap to be one line. Then input the selected pattern's value.

Then input the selected pattern's value, press the  and  keys to align the digit, and the  and  keys to input the value.

Input the value of the test pattern where each print head's two lines overlap with the least misalignment.
For example, on the right test patterns for M print head, the two lines misalign at -21 while they overlap to be one line at -8.
So input -8 for the correction value.

```
# PH R/L ADJ VAL
# M    >-08
```



- 11** Press the  key.

```
# PH R/L ADJ VAL
# M    >-08
```

- 12** Input the correction value for the other print heads by repeating the steps **6** to **10**.

Adjusting the print head's bidirectional position [BIDIRECTION△]

This function adjusts each print head's bidirectional position, based on the print of [BIDIRECTION△]. Note the △ indicates the number 1 to 4.

Note

- Before bidirectional adjustment, forcibly set the media heater to ON to warm up the printer for 30 minutes or more. Start the bidirectional ink spotting adjustment only after confirming that the printer is warmed up sufficiently. The adjustment may not be performed correctly when the printer is not warmed up sufficiently.

For the procedure to warm up the media heater forcibly, see P.2-102.

STEP1 Printing the test pattern for [BIDIRECTION△]

- 1** Set the printer to the offline state.

(Press the **ONLINE** key.)

↑INK	MEDIA REG↓
←MEDIA	M.ADV→

- 2** Press the **MENU** key twice to display the menu group that includes ADJUST.

↑PRINTER	SETUP↓
←ADJUST	HEATER→

- 3** Press the **←** key and the **OK** key to display TEST PRINTS.

#TEST PRINTS
>NOZZLE PRINT

- 4** Press the **▼** key to select BIDIRECTION△, and press the **OK** key.

#TEST PRINTS
>BIDIRECTION△

Select 1, 2, 3, or 4 depending on the print mode.

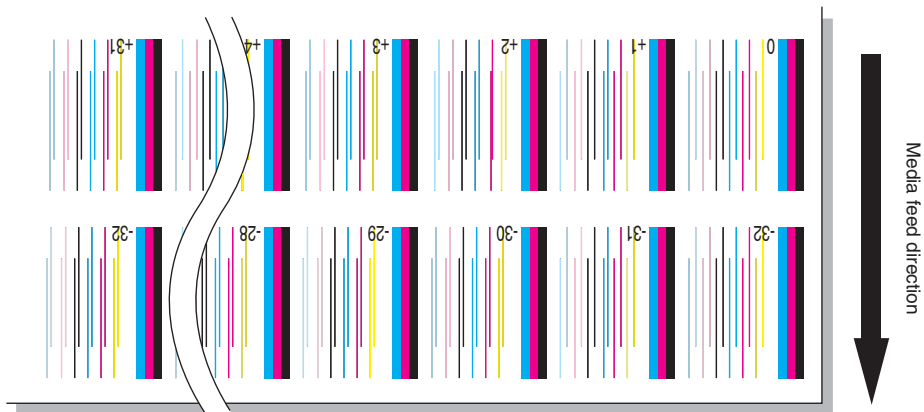
- 5** Confirm that the TEST PRINTS are ready.

#TEST PRINTS
* OK?

- 6** By pressing the **OK** key, print the test pattern below.

#TEST PRINTS
>EXECUTING

- [BIDIRECTION△] print sample



STEP2 Inputting the correction value

- 7** Select the menu group that includes ADJUST, and press the key to display BIDIR ADJ△ ⊙.

Note the △ indicates the numbers 1 to 4, and that ⊙ indicates R or L.

```
# BIDIR ADJ△ ⊙ XXXXXX
# Y    >+00
```

- 8** Move the cursor with the key, and select the print head color with the and keys.

Here describes a sample operation to adjust the M print head.

```
# BIDIR ADJ△ ⊙ XXXXXX
# M    >+00
```

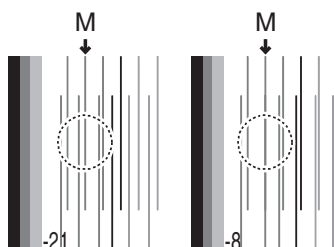
- 9** Press the key to determine the print head for the correction with the parameter input.

```
# BIDIR ADJ△ ⊙ XXXXXX
# M    * +00
```

-
- 10** Within the BIDIRECTION△ patterns, select a pattern where the print head's two lines overlap to be one line. Then input the selected pattern's value.

Then input the selected pattern's value, press the ◀ and ▶ keys to align the digit, and the ▲ and ▼ keys to input the value.

Input the value of the test pattern where each print head's two lines overlap with the least misalignment.
For example, on the right test patterns for M print head, the two lines misalign at -21 while they overlap to be one line at -8. So input -8 for the correction value.



#BIDIR ADJ△ ◎
#M >-08

- 11** Press the OK key.

BIDIR ADJ△ ◎ XXXXXX
M >-08

- 12** Input the correction value for the other print heads by repeating the steps 6 to 10.

Ink pack installation and replacement

This section describes [Ink pack replacement procedure].

Replace ink pack in the following three cases.

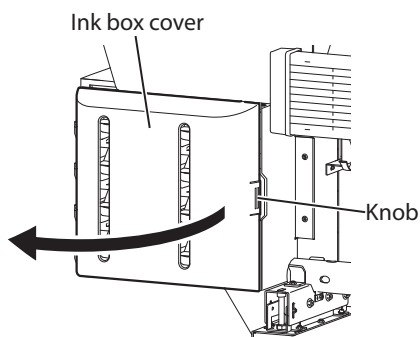
- When ink is exhausted
- When no ink pack is installed
- When changing print mode (8 colors/4 colors)
(Refer to the 8-color to 4-color mode change procedure and the 4-color to 8-color mode change procedure.)
- When the ink pack is not recognized
- When the ink charge from ink tray is not completed

Note

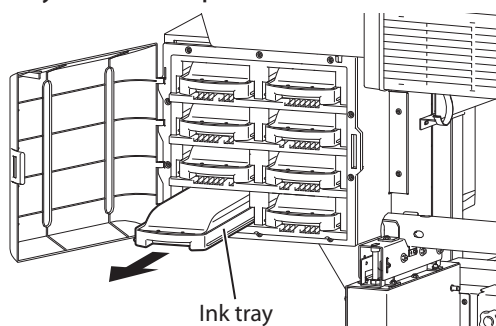
- Do not remove ink tray in the following cases. Otherwise, ink may spill in the printer depending on the printer state, which may result in a breakdown.
 - When the printer is not powered on due to power interruption or circuit breaker off.
 - When an error other than ink end error has occurred
- Do not touch the contacts in the plate of the ink pack.

Ink pack installation/replacement procedure

- 1** Push the knob of the ink box cover to open the ink box.



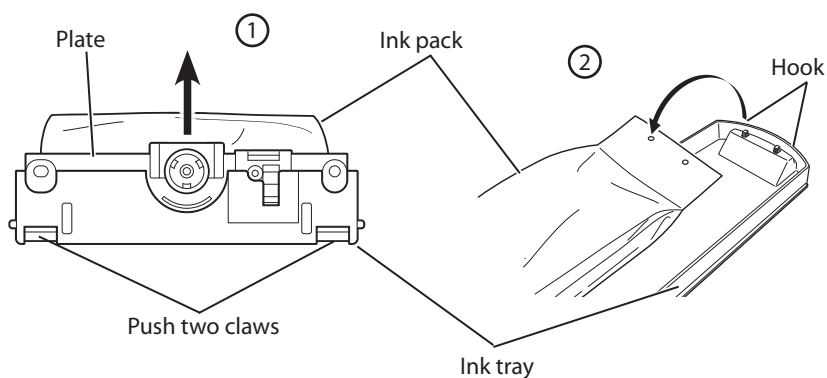
-
- 2** Confirm the color of the ink pack to be replaced, and pull the ink tray out of the printer.



- 3** Take the empty ink pack out of the ink tray.

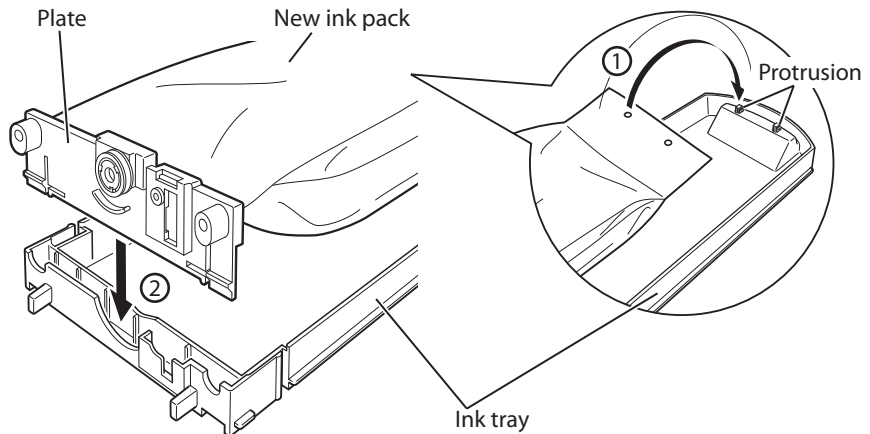
If ink is not installed, go to step **4**.

Push the two claws at the lower part of the plate of the ink pack, and pull up the plate ①. Then remove the ink pack from the hook of the ink tray ②.



4 Take a new ink pack out of the box and set it in the ink tray.

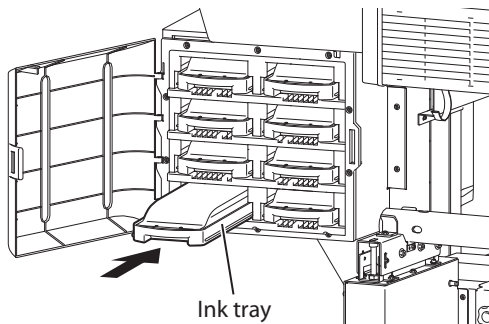
Hook the two holes at the end of the ink pack ① on the ink tray's two protrusion. Then insert the plate into the ink tray until a click is heard ②.



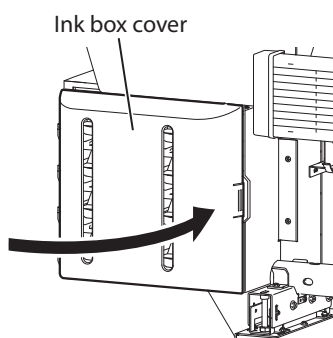
5 Insert the ink tray into the slot of the printer.

Note

- Insert the ink tray as far as it will go.
- The location of ink tray is determined by color. Be sure to insert each ink tray into the specified slot.



6 Close the ink box cover.



7 Confirm that the ink pack replacement was completed.

- When the replacement is successfully completed, the printer returns to the online or offline state.
- If the replacement is not completed, an error message appears. Retry the replacement procedure beginning with step 1.
- While ink is remaining in the subcartridge even during replacement of ink, print operation is performed.

Replacing ink pack when ink is exhausted

1 The error message is displayed.

OPEN INK COVER
XXX REPLACE INK CART

XXX: Ink color and position

8-color mode

Y1 : Yellow	K5 : Black
Lm2 : Light magenta	Lc6 : Light cyan
C3 : Cyan	M7 : Magenta
Gy4 : Gray	Lg8 : Light gray

4-color mode

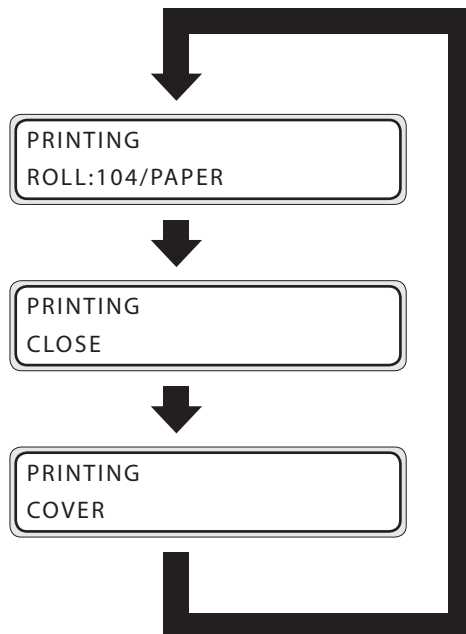
Y1 : Yellow	K5 : Black
M2 : Magenta	C6 : Cyan
C3 : Cyan	M7 : Magenta
K4 : Black	Y8 : Yellow

2 Replace the specified ink pack according to [Ink pack installation/replacement procedure].

■ Replacing ink during printing

This printer allows replacement of ink pack during online printing without interrupting print operation. For this reason, the ink replacement guidance during online printing is displayed cyclically in the second line of the LCD. The following shows guidance when the ink box cover is opened during online printing and when ink in the ink pack is exhausted.

<When the ink box cover is opened>

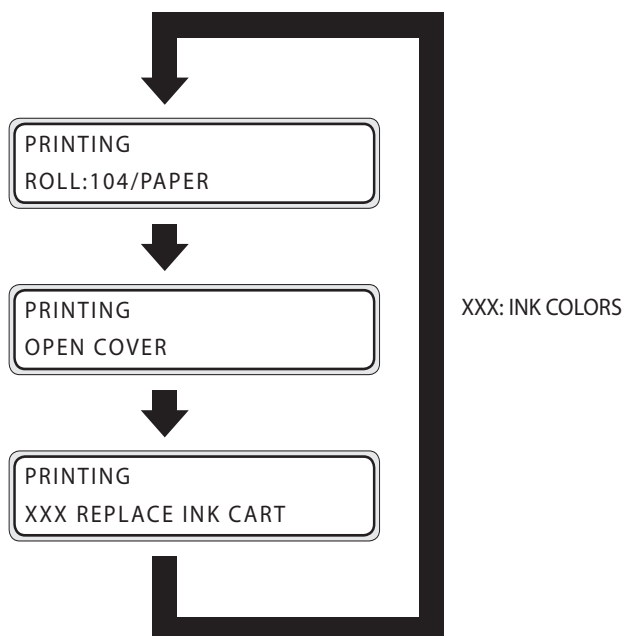


The guidance message to prompt you to close the ink box cover appears in the second line of the LCD.

While ink is remaining in the subcartridge even when the ink box cover is open, print operation is continued. However, no ink is supplied to the subcartridge because the ink box cover is open.

When the ink in the subcartridge is exhausted, the printer enters the print pause mode and print operation is interrupted until the ink box cover is closed. To restart the operation from this print pause mode, close the ink box cover and press the **ONLINE** key. The print pause mode is reset and print operation is restarted.

<When ink in the ink pack is exhausted>



The guidance message to prompt you to replace the ink pack appears in the second line of the LCD.

Print operation is continued until the ink in the subcartridge is exhausted. When the ink pack has been replaced before the ink in the subcartridge is exhausted, the printer can continue to print without interruption.

If the ink pack has not been replaced before the ink in the subcartridge is exhausted, the printer enters the print pause mode and print operation is interrupted until the ink pack is replaced. To restart the operation from this print pause mode, close the ink box cover and press the **ONLINE** key. The print pause mode is reset and print operation is restarted.



- The ink replacement guidance during online printing is displayed cyclically in the second line of the LCD in the same way as the first case. Restoring the operation in each case is enabled by the same operation as for normal error processing.

When no ink pack is installed

- 1 The guidance message is displayed.

XXX LOAD
INK PACK

- 2 Install the specified ink pack according to [Ink pack installation/replacement procedure].

XXX: Ink color and position

8-color mode

Y1 : Yellow	K5 : Black
Lm2 : Light magenta	Lc6 : Light cyan
C3 : Cyan	M7 : Magenta
Gy4 : Gray	Lg8 : Light gray

4-color mode

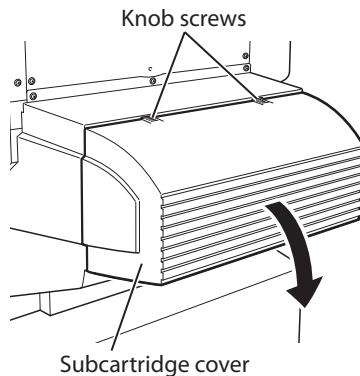
Y1 : Yellow	K5 : Black
M2 : Magenta	C6 : Cyan
C3 : Cyan	M7 : Magenta
K4 : Black	Y8 : Yellow

Service clean

- 1 Execute the STORE INK SYS from the operation panel.

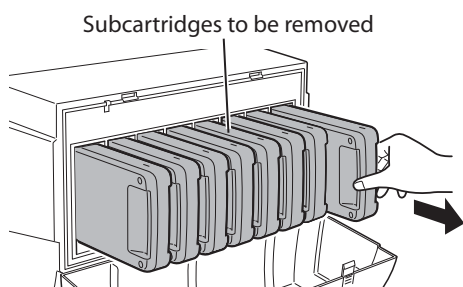
#INK SYSTEM OPT
>STORE INK SYS

- 2 Loosen the two knob screws on the subcartridge cover and open the subcartridge cover.



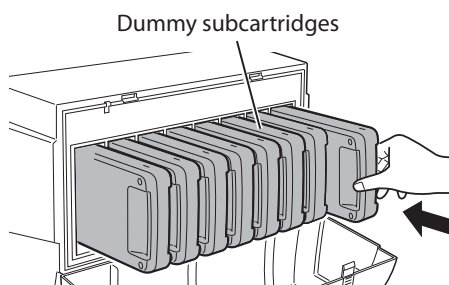
OPEN
SUBCARTRIDGE COVER

3 Remove the eight subcartridges.



REMOVE SUBCARTRIDGE

4 Set the dummy subcartridges of the storage liquid set.



LOAD

XXX DUMMY SUBCART

XXX: Ink color and position

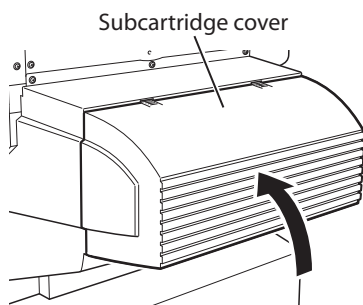
8-color mode

Y1 : Yellow	K5 : Black
Lm2 : Light magenta	Lc6 : Light cyan
C3 : Cyan	M7 : Magenta
Gy4 : Gray	Lg8 : Light gray

4-color mode

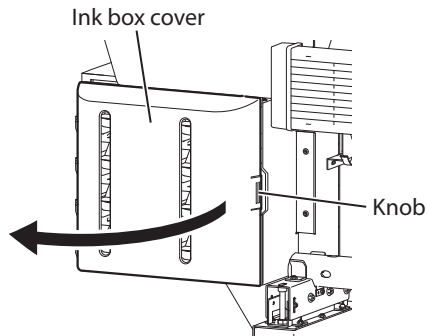
Y1 : Yellow	K5 : Black
M2 : Magenta	C6 : Cyan
C3 : Cyan	M7 : Magenta
K4 : Black	Y8 : Yellow

5 Close the subcartridge cover and tighten the two knob screws.



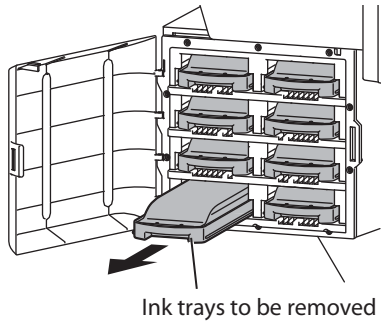
CLOSE

SUBCARTRIDGE COVER

6 Open the ink box cover.

OPEN
INK COVER

On the LCD, ink box cover is indicated as INK COVER.

7 Remove the eight ink trays.

REMOVE
XXX INK PACK

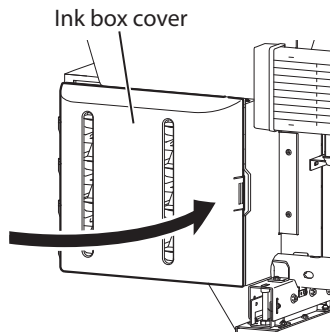
XXX: Ink color and position

8-color mode

Y1 : Yellow	K5 : Black
Lm2 : Light magenta	Lc6 : Light cyan
C3 : Cyan	M7 : Magenta
Gy4 : Gray	Lg8 : Light gray

4-color mode

Y1 : Yellow	K5 : Black
M2 : Magenta	C6 : Cyan
C3 : Cyan	M7 : Magenta
K4 : Black	Y8 : Yellow

8 Close the ink box cover.

CLOSE
INK COVER

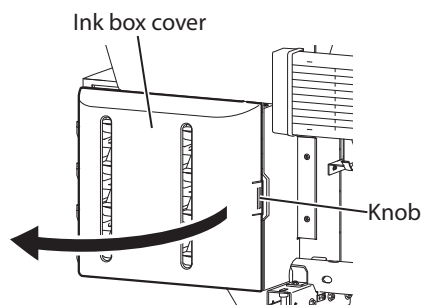
- 9** Press the **OK** key on the operation panel to perform ink removal.

START PURGING
*BOTTLE OK?



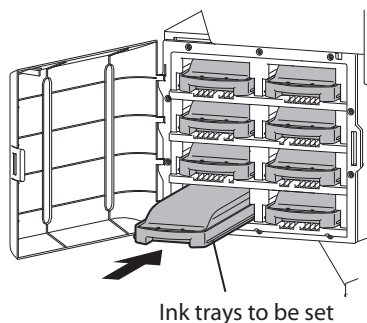
PURGING
PLEASE WAIT XXX

- 10** Open the ink box cover.



OPEN
INK COVER

- 11** Insert the ink trays with storage liquid packs into the slot of the ink box.



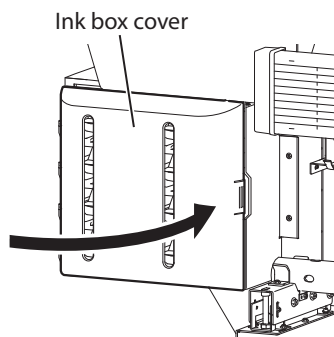
LOAD
XXX SL PACK



HINT

- For how to install ink packs, refer to "Ink pack installation/replacement procedure."
- To facilitate this work, set the storage liquid packs to the optional ink trays in advance.

- 12** Close the ink box cover.



CLOSE
INK COVER

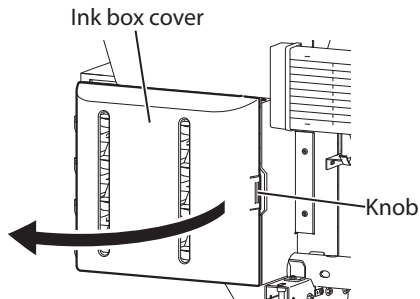
- 13** Press the **OK** key on the operation panel to perform cleaning.

START SL CHARGING
*BOTTLE OK?



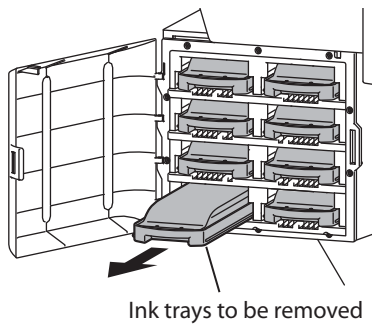
CHARGING SL
PLEASE WAIT XXX

- 14** Open the ink box cover.



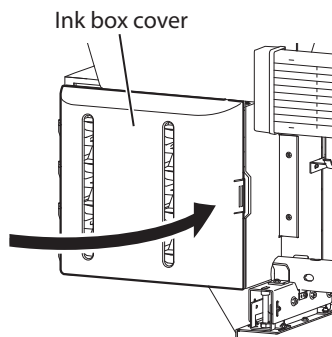
OPEN
INK COVER

- 15** Remove the ink trays with cleaning liquid packs.



REMOVE
XXX SL PACK

- 16** Close the ink box cover.



CLOSE
INK COVER

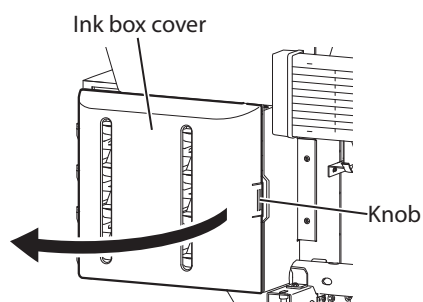
- 17** Press the **OK** key on the operation panel to perform ink removal.

START PURGING
*BOTTLE OK?



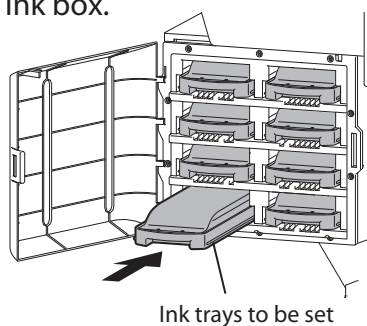
PURGING
PLEASE WAIT XXX

- 18** Open the ink box cover.



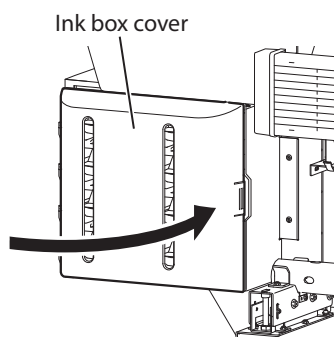
OPEN
INK COVER

- 19** Insert the ink trays with storage liquid packs into the slot of the ink box.



LOAD
XXX SL PACK

- 20** Close the ink box cover.



CLOSE
INK COVER

- 21** Press the **OK** key on the operation panel to perform cleaning.

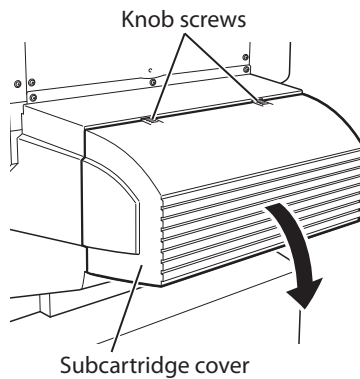
START SL CHARGING
*BOTTLE OK?



CHARGING SL
PLEASE WAIT XXX

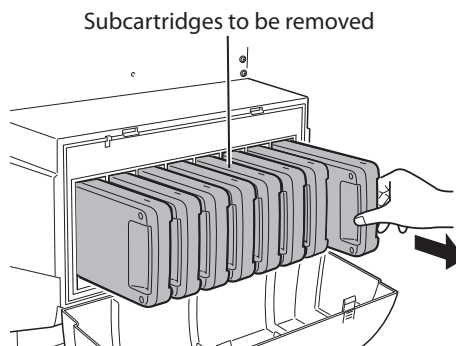
Head wash

- 1** Execute the CLEAN INK SYS from the operation panel.
- 2** Loosen the two knob screws on the subcartridge cover and open the subcartridge cover.



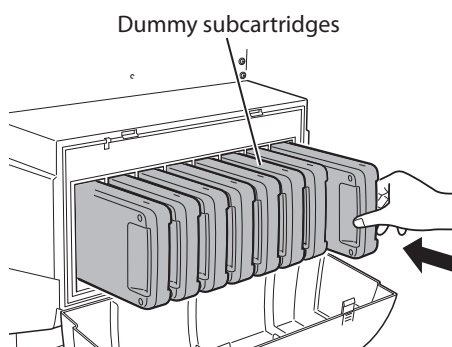
OPEN
SUBCARTRIDGE COVER

- 3** Remove the eight subcartridges.



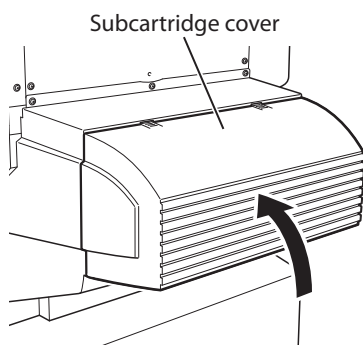
REMOVE
XXX SUBCARTRIDGE

4 Set the dummy subcartridges of the cleaning liquid set.



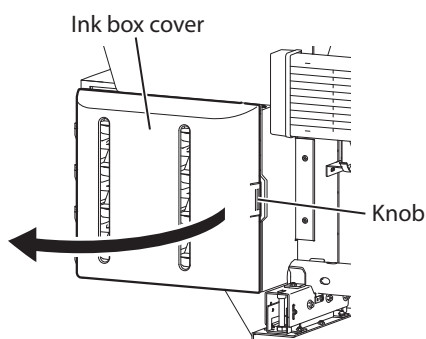
LOAD
XXX DUMMY SUBCART

5 Close the subcartridge cover and tighten the two knob screws.



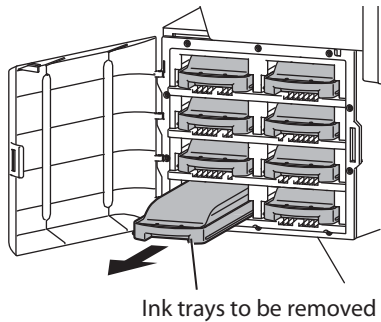
CLOSE
SUBCARTRIDGE COVER

6 Open the ink box cover.



OPEN
INK COVER

On the LCD, ink box cover is indicated as INK COVER.

7 Remove the eight ink trays.

REMOVE
XXX INK PACK

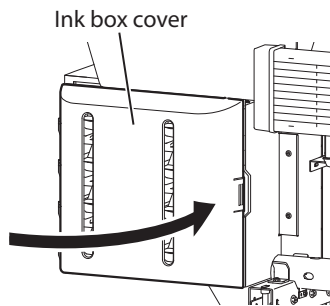
XXX: Ink color and position

8-color mode

Y1 : Yellow	K5 : Black
Lm2 : Light magenta	Lc6 : Light cyan
C3 : Cyan	M7 : Magenta
Gy4 : Gray	Lg8 : Light gray

4-color mode

Y1 : Yellow	K5 : Black
M2 : Magenta	C6 : Cyan
C3 : Cyan	M7 : Magenta
K4 : Black	Y8 : Yellow

8 Close the ink box cover.

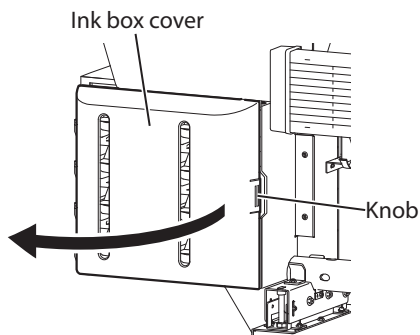
CLOSE
INK COVER

9 Press the **OK** key on the operation panel to perform ink removal.

START PURGING
*BOTTLE OK?

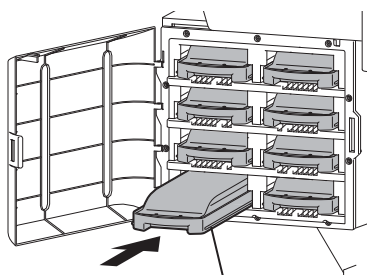


PURGING
PLEASE WAIT XXX

10 Open the ink box cover.

OPEN
INK COVER

- 11** Insert the ink trays with cleaning liquid packs into the slot of the ink box.



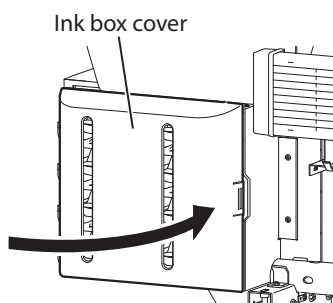
Ink trays to be set

LOAD
XXX CL PACK



HINT – For how to install ink packs, refer to "Ink pack installation/replacement procedure."
– To facilitate this work, set the cleaning liquid packs to the optional ink trays in advance.

- 12** Close the ink box cover.



CLOSE
INK COVER

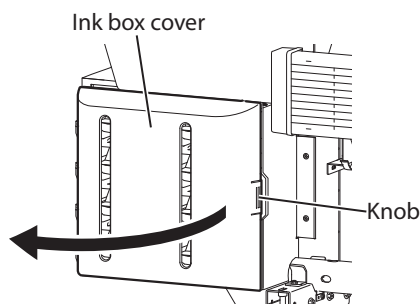
- 13** Press the **OK** key on the operation panel to perform cleaning.

START CL CHARGING
*BOTTLE OK?

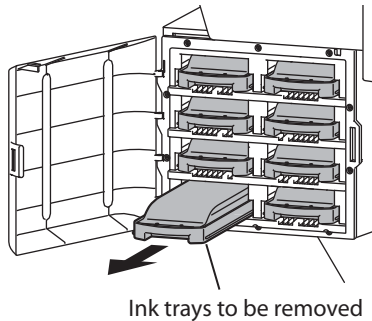


CHARGING CL
PLEASE WAIT XXX

- 14** Open the ink box cover.



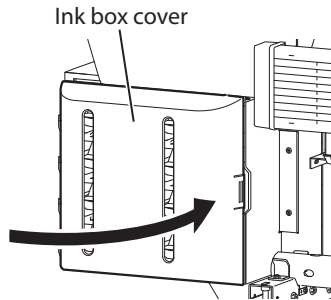
OPEN
INK COVER

15 Remove the ink trays with cleaning liquid packs.

REMOVE
XXX CL PACK

XXX: Ink color and position

Y1 : Yellow	K5 : Black
Lm2 : Light magenta	Lc6 : Light cyan
C3 : Cyan	M7 : Magenta
Gy4 : Gray	Lg8 : Light gray

16 Close the ink box cover.

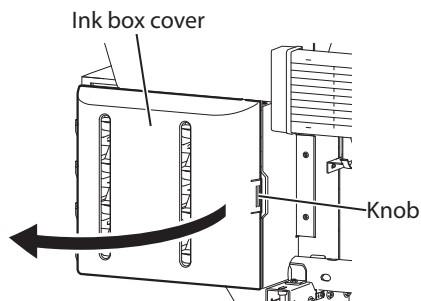
CLOSE
INK COVER

17 Press the **OK** key on the operation panel to perform ink removal.

START PURGING
*BOTTLE OK?

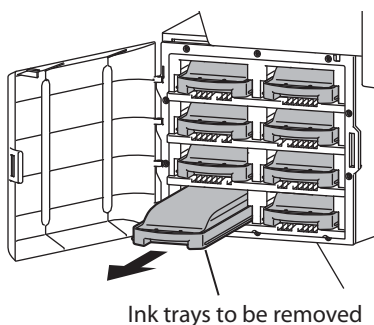


PURGING
PLEASE WAIT XXX

18 Repeat the steps **10** to **13** to perform the cleaning again.**19** Open the ink box cover.

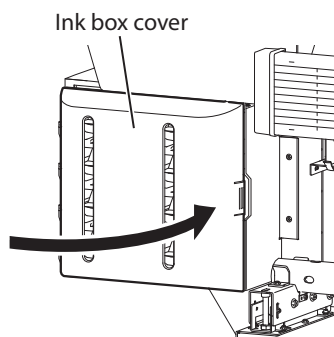
OPEN
INK COVER

20 Remove the ink trays with cleaning liquid packs.



REMOVE
XXX CL PACK

21 Close the ink box cover.



CLOSE
INK COVER

22 Press the **OK** key on the operation panel to perform ink removal.

START PURGING
*BOTTLE OK?



PURGING
PLEASE WAIT XXX

8-color to 4-color mode change procedure

The procedure to change 8-color mode to 4-color mode is classified into four actions as follow.

- (1) Replace the four subcartridges with four dummy subcartridges.
- (2) Remove the four ink trays and perform the cleaning twice.
- (3) Set the 4-color mode's ink packs.
- (4) Replace the four dummy subcartridges with the four subcartridges.

The detailed procedure is described below.

Note

- If 8-color data is received during the 4-color mode, an error is notified at the host computer side. Print operation is disabled.



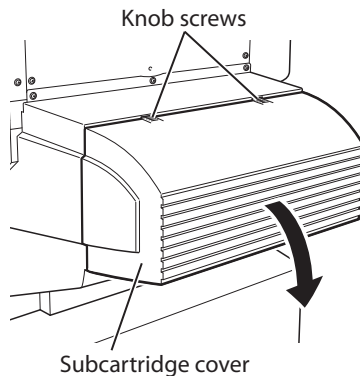
- To change the color mode to the 4-color mode, purchase the optional color replacement set. If you do not have two subcartridges for each color (Y/M/C/K), purchase the additional subcartridges from your dealer.

- (1) Replace the four subcartridges with four dummy subcartridges.

- 1** Execute the 8-color to 4-color mode change from the operation panel.

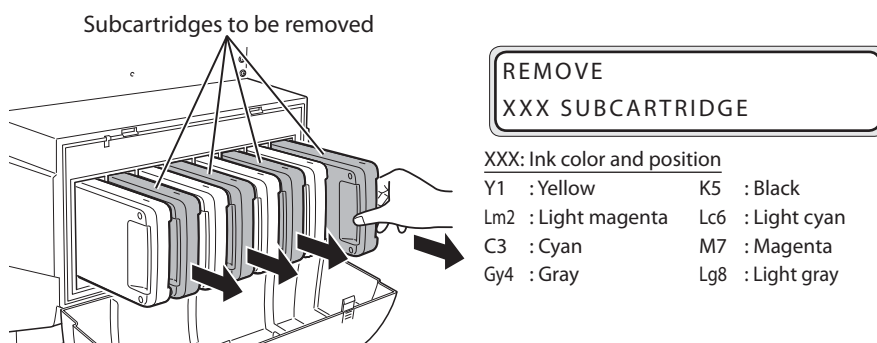
#COLOR CHANGE (8->4)
>

- 2** Loosen the two knob screws on the subcartridge cover and open the subcartridge cover.

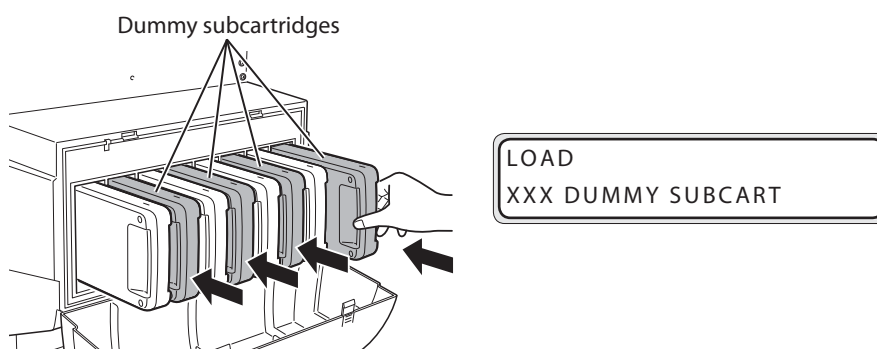


OPEN
SUBCARTRIDGE COVER

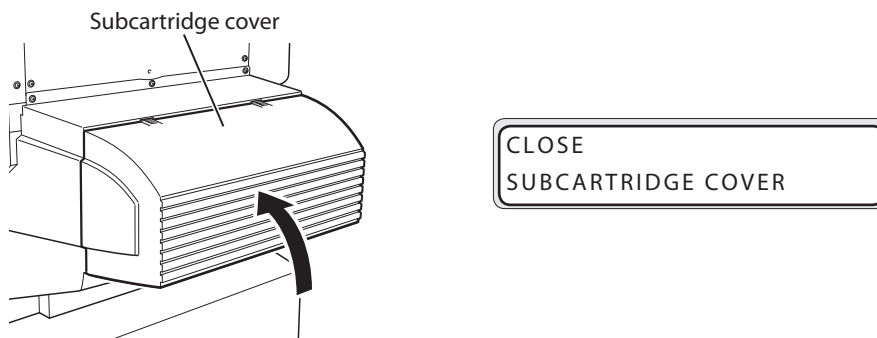
-
- 3** Remove the subcartridges (Lm, Lc, Gy, and Lgy) for the 8-color mode.



- 4** Set the dummy subcartridges of the color replacement set.

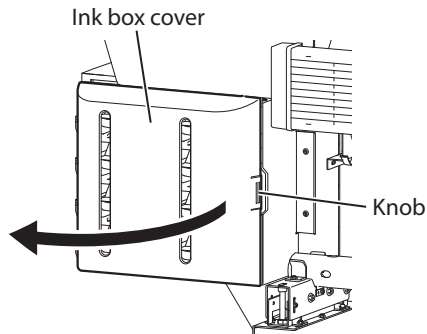


- 5** Close the subcartridge cover and tighten the two knob screws.



(2) Remove the four ink trays and perform the cleaning twice.

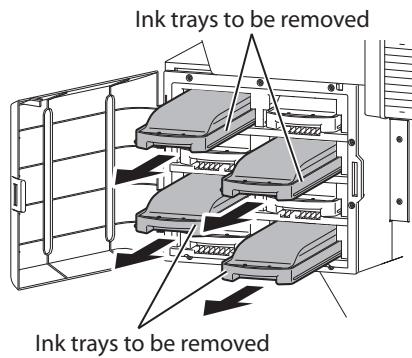
6 Open the ink box cover.



OPEN
INK COVER

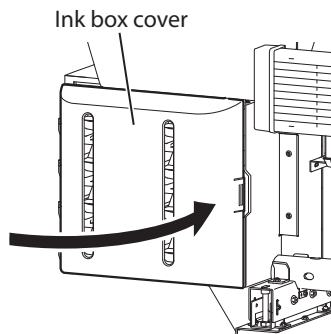
On the LCD, ink box cover is indicated as INK COVER.

7 Remove the ink trays (Lm, Lc, Gy, and Lgy) for the 8-color mode.



REMOVE
XXX INK PACK

8 Close the ink box cover.



CLOSE
INK COVER

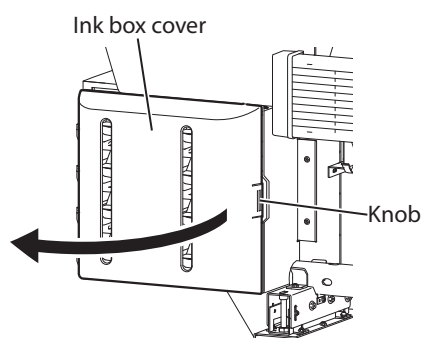
- 9 Press the **OK** key on the operation panel to perform ink removal.

START PURGING
*BOTTLE OK?



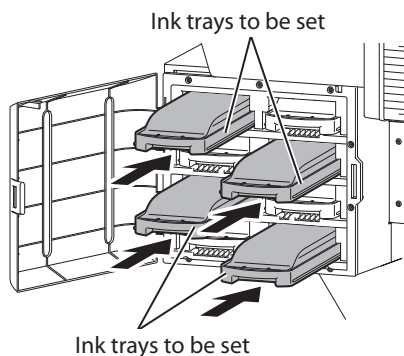
PURGING
PLEASE WAIT XXX

- 10 Open the ink box cover.



OPEN
INK COVER

- 11 Insert the ink trays with cleaning liquid packs into the slots of the ink box.



LOAD
XXX CL PACK

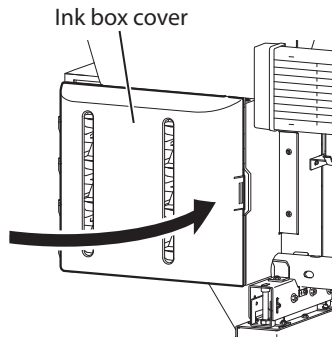
XXX: Ink color and position

Y1 : Yellow	K5 : Black
Lm2 : Light magenta	Lc6 : Light cyan
C3 : Cyan	M7 : Magenta
Gy4 : Gray	Lg8 : Light gray



HINT

- For how to install ink packs, refer to "Ink pack installation/replacement procedure."
- To facilitate this work, set the cleaning liquid packs to the optional ink trays in advance.

12 Close the ink box cover.

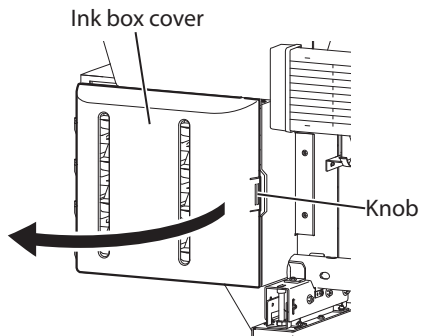
CLOSE
INK COVER

13 Press the **OK** key on the operation panel to perform cleaning.

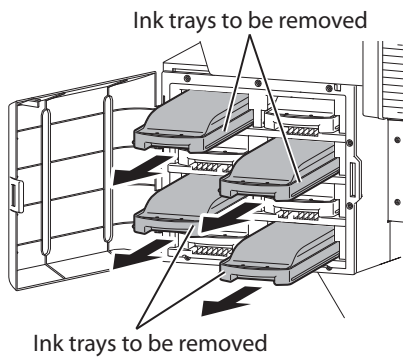
START CL CHARGING
*BOTTLE OK?



CHARGING INK
PLEASE WAIT XXX

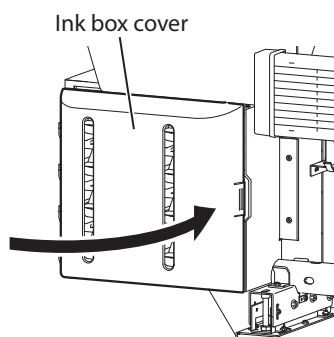
14 Open the ink box cover.

OPEN
INK COVER

15 Remove the ink trays with cleaning liquid packs.

REMOVE
XXX CL PACK

16 Close the ink box cover.



CLOSE
INK COVER

17 Press the **OK** key on the operation panel to perform ink removal.

START PURGING
*BOTTLE OK?

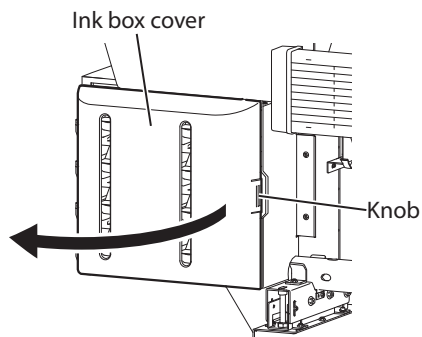


PURGING
PLEASE WAIT XXX

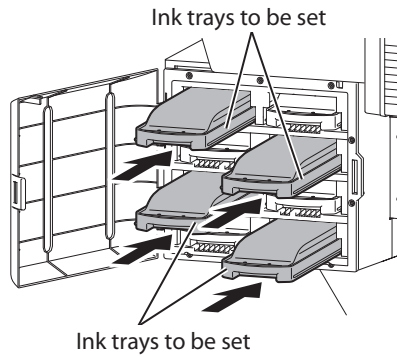
18 Repeat the steps **10** to **17** to perform the cleaning again.

(3) Set the 4-color mode's ink packs.

19 Open the ink box cover.



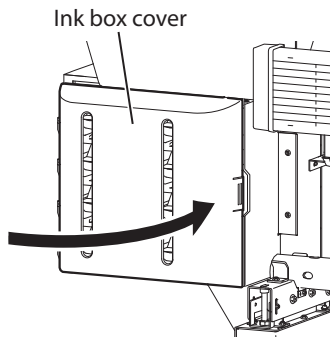
OPEN
INK COVER

20 Set the ink packs (Y, M, C, and K) for the 4-color mode.

LOAD
XXX INK PACK

**HINT**

- For procedure to install ink packs, refer to "Ink pack installation/replacement procedure."
- To facilitate this work, set the ink packs to the optional ink trays in advance.

21 Close the ink box cover.

CLOSE INK COVER

22 Press the **OK** key on the operation panel to charge ink of four colors.

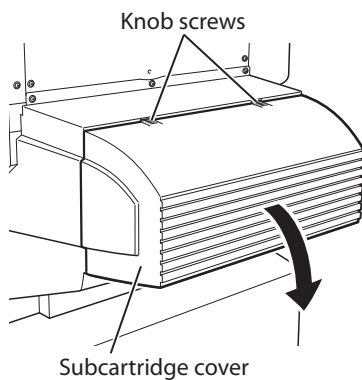
START INK FILLING
*BOTTLE OK?

**OK**

CHARGING INK
PLEASE WAIT XXX

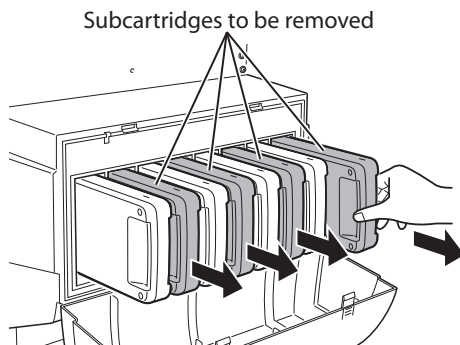
(4) Replace the four dummy subcartridges with the four subcartridges.

- 23** Loosen the two knob screws on the subcartridge cover and open the subcartridge cover.



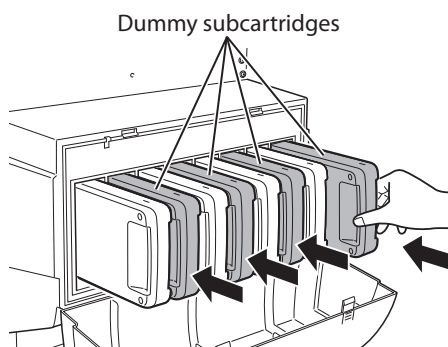
OPEN
SUBCARTRIDGE COVER

- 24** Remove the dummy subcartridges of the color replacement set.



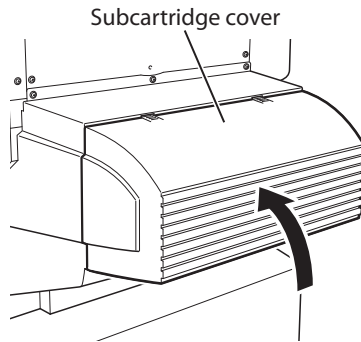
REMOVE
XXX SUBCARTRIDGE

- 25** Set the four subcartridges (Y, M, C, and K) for 4-color mode.



LOAD
XXX DUMMY SUBCART

26 Close the subcartridge cover and tighten the two knob screws.



CLOSE
SUBCARTRIDGE COVER

27 Press the **OK** key on the operation panel.

START CLEANING
*BOTTLE OK?

The cleaning operation starts and the 8-color to 4-color mode change procedure is completed.

4-color to 8-color mode change procedure

The procedure to change 4-color mode to 8-color mode is classified into four actions as follow.

- (1) Replace the four subcartridges with four dummy subcartridges.
- (2) Remove the four ink trays and perform the cleaning twice.
- (3) Set the 8-color mode's ink packs.
- (4) Replace the four dummy subcartridges with the four subcartridges.

The detailed procedure is described below.

Note

- If 4-color data is received during the 8-color mode, an error is notified at the host computer side. Print operation is disabled.



- To change the color mode to the 8-color mode, purchase the optional color replacement set. If you do not have subcartridges for colors (Lm/Lc/Gy/Lgy), purchase the optional subcartridges.

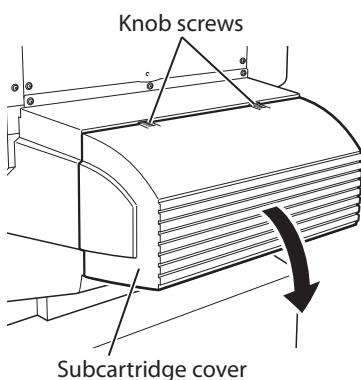
(1) Replace the four subcartridges with four dummy subcartridges.

- 1** Execute the 4-color to 8-color mode change from the operation panel.

#COLOR CHANGE (4->8)

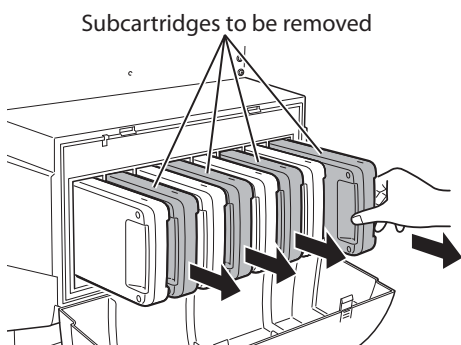
>

- 2** Remove the two knob screws on the subcartridge cover and open the subcartridge cover.



OPEN
SUBCARTRIDGE COVER

- 3** Remove the subcartridges (Y, M, C, and K) for the 4-color mode.

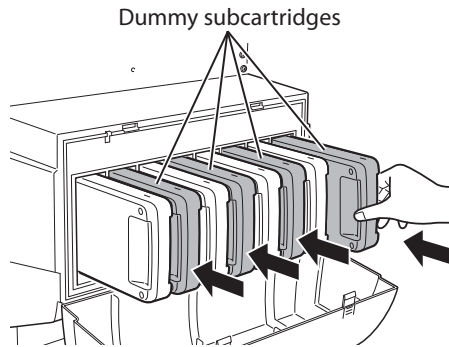


REMOVE
XXX SUBCARTRIDGE

XXX: Ink color and position

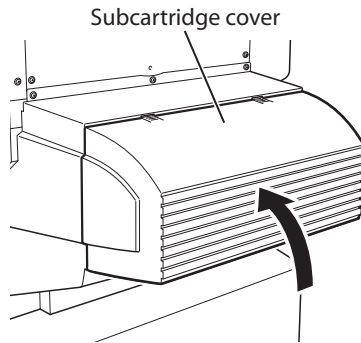
Y1 : Yellow	K5 : Black
M2 : Magenta	C6 : Cyan
C3 : Cyan	M7 : Magenta
K4 : Black	Y8 : Yellow

4 Set the dummy subcartridges of the color replacement set.



LOAD
XXX DUMMY SUBCART

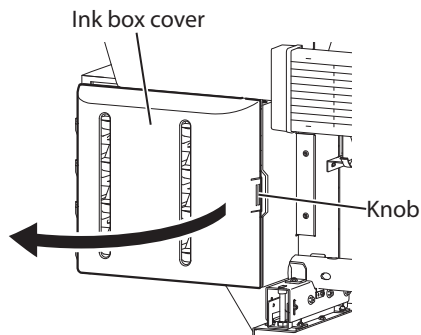
5 Close the subcartridge cover.



CLOSE
SUBCARTRIDGE COVER

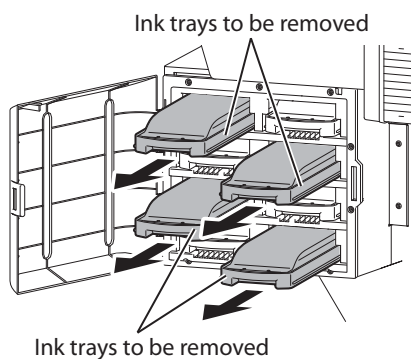
(2) Remove the four ink trays and perform the cleaning twice.

6 Open the ink box cover.



OPEN
INK COVER

7 Remove the ink trays (Y, M, C, and K) for the 4-color mode.

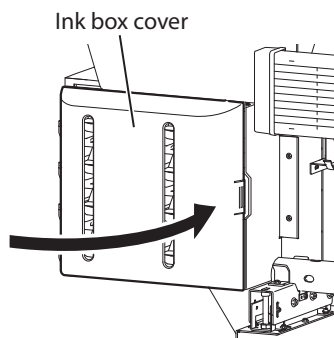


REMOVE
XXX INK PACK

XXX: Ink color and position

Y1 : Yellow	K5 : Black
M2 : Magenta	C6 : Cyan
C3 : Cyan	M7 : Magenta
K4 : Black	Y8 : Yellow

8 Close the ink box cover.



CLOSE
INK COVER

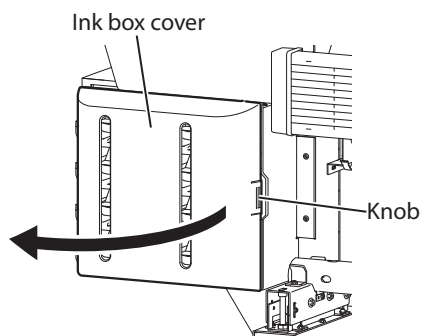
9 Press the **OK** key on the operation panel to perform ink removal.

START PURGING
*BOTTLE OK?



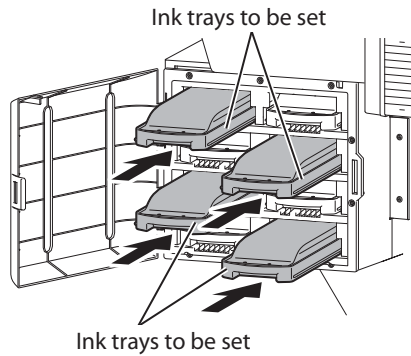
PURGING
PLEASE WAIT XXX

10 Open the ink box cover.



OPEN
INK COVER

- 11** Insert the ink trays with cleaning liquid packs into the slots of the ink box.



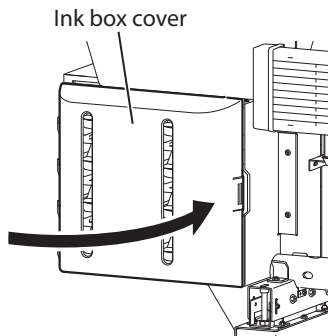
LOAD
XXX CL PACK



HINT

- For how to install ink packs, refer to "Ink pack installation/replacement procedure."
- To facilitate this work, set the ink packs to the optional ink trays in advance.

- 12** Close the ink box cover.



CLOSE
INK COVER

- 13** Press the **OK** key on the operation panel to perform cleaning.

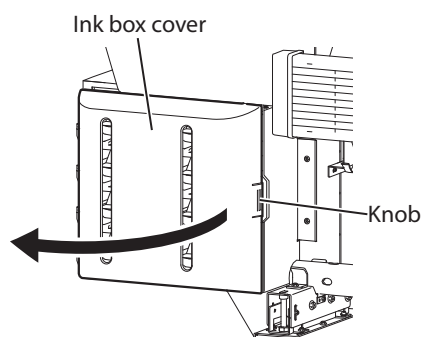
START INK CHARGING
*BOTTLE OK?



OK

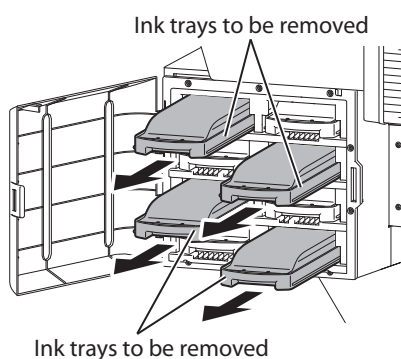
CHARGING INK
PLEASE WAIT XXX

14 Open the ink box cover.



OPEN
INK COVER

15 Remove the ink trays with cleaning liquid packs.

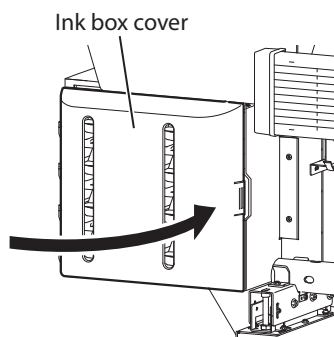


REMOVE
XXX CL PACK

XXX: Ink color and position

Y1 :Yellow	K5 :Black
Lm2 :Light magenta	Lc6 :Light cyan
C3 :Cyan	M7 :Magenta
Gy4 :Gray	Lg8 :Light gray

16 Close the ink box cover.



CLOSE
INK COVER

17 Press the **OK** key on the operation panel to perform ink removal.

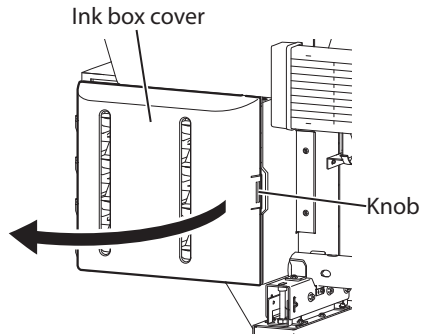
START PURGING
*BOTTLE OK?



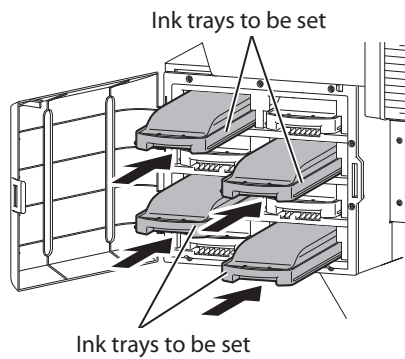
PURGING
PLEASE WAIT XXX

18 Repeat the steps 10 to 17 to perform the cleaning again.

(3) Set the 8-color mode's ink packs.

19 Open the ink box cover.

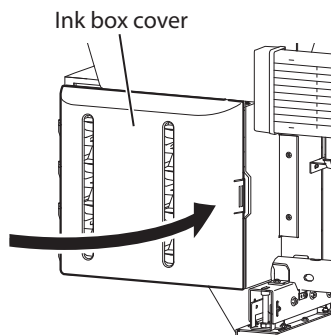
OPEN
INK COVER

20 Set the ink trays (Lm, Lc, Gy, and Lgy) for the 8-color mode.

LOAD
XXX INK PACK

**HINT**

- For the procedure to install ink packs, refer to "Ink pack installation/replacement procedure."
- To facilitate this work, set the ink packs to the optional ink trays in advance.

21 Close the ink box cover.

CLOSE
INK COVER

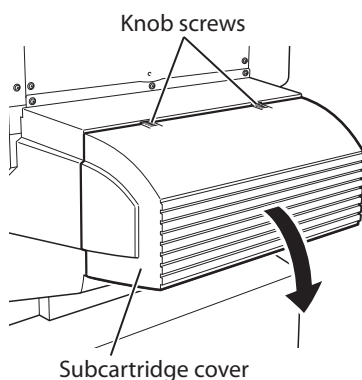
- 22** Press the **OK** key on the operation panel.

START CHARGING
*BOTTLE OK?



CHARGING INK
PLEASE WAIT XXX

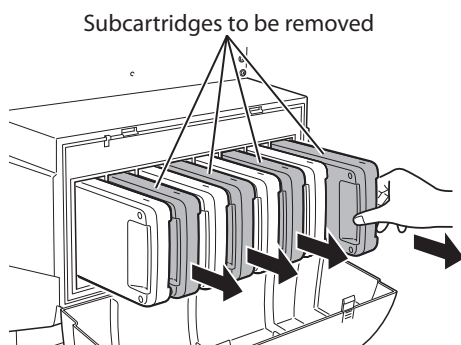
- 23** Loosen the two knob screws on the subcartridge cover and open the subcartridge cover.



OPEN
SUBCARTRIDGE COVER

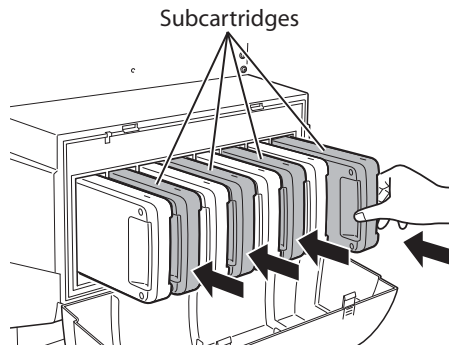
(4) Replace the four dummy subcartridges with the four subcartridges.

- 24** Remove the dummy subcartridges of the color replacement set.



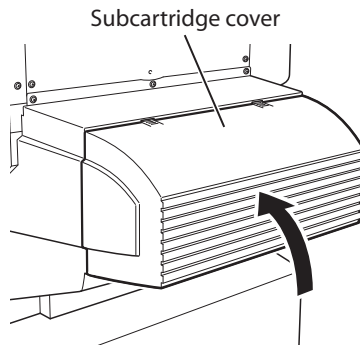
REMOVE
XXX SUBCARTRIDGE

- 25** Set the four subcartridges (Lm, Lc, Gy, and Lgy) for 8-color mode.



LOAD
XXX DUMMY SUBCART

- 26** Close the subcartridge cover and tighten the two knob screws.



CLOSE
SUBCARTRIDGE COVER

- 27** Press the **OK** key on the operation panel.

START CLEANING
*BOTTLE OK?

The cleaning operation starts and the 4-color to 8-color mode change procedure is completed.

When the ink pack is not recognized

- 1 With the guidance message confirm the unrecognized ink pack.

CHECK nn
XXX INK PACK

- 2 Reinstall the ink pack according to [Ink pack installation/replacement procedure].

XXX: Ink color and position

8-color mode

Y1 : Yellow	K5 : Black
Lm2 : Light magenta	Lc6 : Light cyan
C3 : Cyan	M7 : Magenta
Gy4 : Gray	Lg8 : Light gray

4-color mode

Y1 : Yellow	K5 : Black
M2 : Magenta	C6 : Cyan
C3 : Cyan	M7 : Magenta
K4 : Black	Y8 : Yellow

nn: Error code

Note

- Unrecognized ink pack cannot be used.
- If the guidance message is still displayed after the ink pack is reinstalled, contact our service depot.

When the ink charge from ink tray is not completed

When the message prompting ink supply is displayed before printing or print head's cleaning, prepare an ink pack and operate as follow.

<Ink supply>

- 1 The message prompting ink supply is displayed.

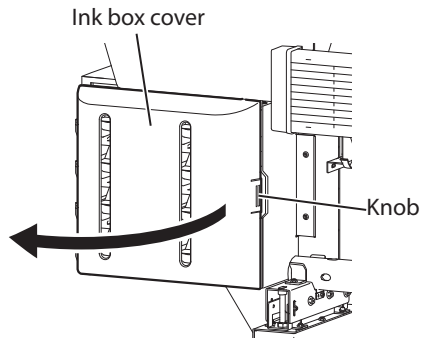
#INK SUPPLY
>

- 2 Press the  key.

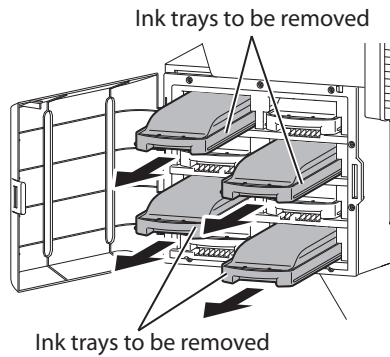
#INK SUPPLY
>

- 3 Press the  key.

#INK SUPPLY
*OK?

4 Open the ink box cover.

OPEN
INK COVER

5 Remove the ink trays with dummy packs.

REMOVE
XXX DUMMY INK PACK

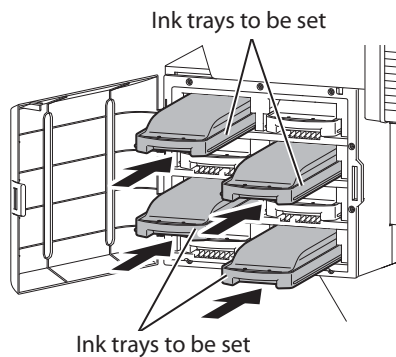
XXX: Ink color and position

8-color mode

Y1 : Yellow	K5 : Black
Lm2 : Light magenta	Lc6 : Light cyan
C3 : Cyan	M7 : Magenta
Gy4 : Gray	Lg8 : Light gray

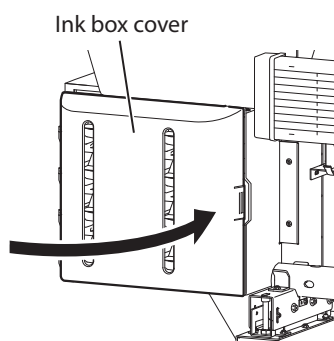
4-color mode

Y1 : Yellow	K5 : Black
M2 : Magenta	C6 : Cyan
C3 : Cyan	M7 : Magenta
K4 : Black	Y8 : Yellow

6 Set the ink trays.

LOAD
XXX INK PACK

7 Close the ink box cover.



CLOSE
INK COVER

8 Press the key.

#INK SUPPLY
*OK?



#INK SUPPLY
*EXECUTING



#INK SUPPLY
>

Waste ink bottle installation and replacement

This section describes the waste ink bottle replacement procedure.

Replace the waste ink bottle in the following two cases.

- When no waste ink bottle is installed
- When the waste ink bottle becomes full

The treatment procedure for each case is shown below.

Note

- Do not replace the waste ink bottle during printing.

Waste ink bottle installation procedure

- 1 Confirm that the printer recognizes no waste ink bottle with the guidance message.

BOTTLE OUT
INSTALL BOTTLE

- 2 Install a new waste ink bottle.

Refer to [Procedure when the waste ink bottle becomes full].

Note

- Before using the printer, check visually whether the waste ink bottle is full. When the waste ink bottle is full, treat it following [Procedure when the waste ink bottle becomes full].

- 3 Confirm the message to select the waste ink counter reset (clear) is displayed.

#BOTTLE EMPTY?
*NO



#BOTTLE EMPTY?
*YES

Note

- The waste ink counter counts the amount of waste ink and is used to display a message prompting you to replace the waste ink bottle with a new one when it becomes full. The count of waste ink volume is assumptive, and therefore the waste ink bottle full state cannot be accurately detected. Basically, the counter works on the premise that it is cleared when an empty waste ink bottle is installed. Therefore, always select "#BOTTLE EMPTY? *YES" with a new waste ink bottle installed. If this premise is ignored, the waste ink bottle full detect counter does not function correctly and waste ink will become full before the waste ink bottle full alarm is generated, which may cause the waste ink to overflow.

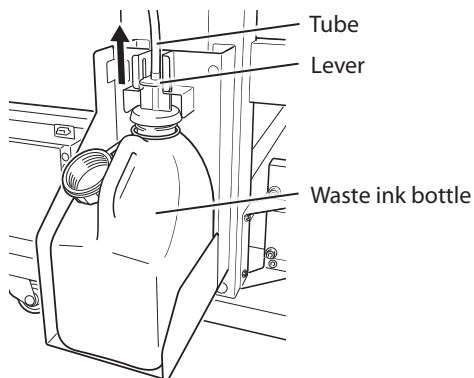
- 4 Select "BOTTLE EMPTY? *YES" and press the key.

Procedure when the waste ink bottle becomes full

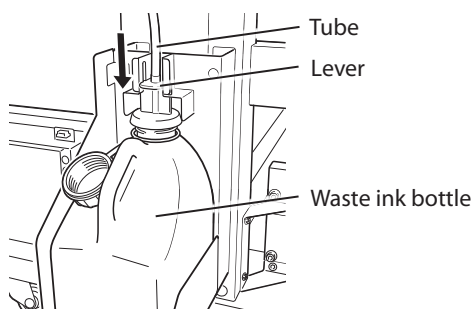
Note

- Replace the waste ink bottle carefully not to bump your head on the printer upper part.

- 1** Slide the lever up and lift the whole cap.



- 2** The ink drips from the tube. Leave it for a while.
- 3** Remove the full waste ink bottle from the unit paying attention not to spill the waste ink. Then cap it and replace it with a new one.
- 4** Wipe off the spill ink in the waste ink bottle unit.
- 5** Slide the lever up and install a new waste ink bottle.
- 6** Lower the lever.



Note

- Do not hit the external cover's upper part, or the waste ink may spill.

- 7** The message to select the waste ink counter reset (clear) is displayed.

#BOTTLE EMPTY?
*NO



#BOTTLE EMPTY?
*YES

- 8** Select "BOTTLE EMPTY? *YES" and press the **OK** key.

Procedure when no waste ink bottle is installed

- 1** Confirm that the printer recognizes no waste ink bottle with the guidance message is displayed.

BOTTLE OUT
INSTALL BOTTLE

- 2** Install a new waste ink bottle.

Refer to [Procedure when the waste ink bottle becomes full].

- 3** Confirm the message to select the waste ink counter reset (clear) is displayed.

#BOTTLE EMPTY?
*NO



#BOTTLE EMPTY?
*YES

- 4** Select "BOTTLE EMPTY? *YES" and press the **OK** key.

Replacing the wiper blade

The following describes the wiper blade replacement procedure.

Replace the wiper blade when the replacement message appears or scratches are found in the daily inspection. Prepare the tweezers supplied in the daily maintenance kit before replacing the wiper blade.

- 1** Set the printer to the offline state and press the **MENU** key to display PH.MAIN MENU.

↑REWIND FORM FEED↓
←PH.REC PH.MAIN→

- 2** Press the **▶** key to enter PH.MAIN MENU. The cap cleaning menu is displayed.

#CAP CLEANING
>

- 3** Select [REPLACE WIPER BLADE] with the **▼** key and press the **OK** key.

#REPLACE WIPER BLADE
>

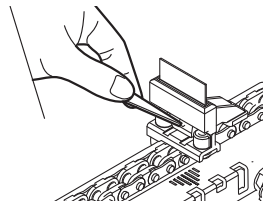
- 4** When the confirmation screen appears, press the **OK** key.

#REPLACE WIPER BLADE
*OK?

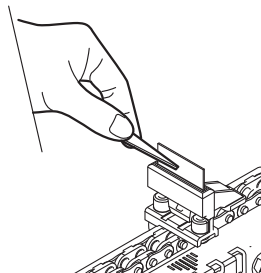
- 5** Open the front cover and wipe cover.

OPEN COVER
REPLACE WIPER BLADE

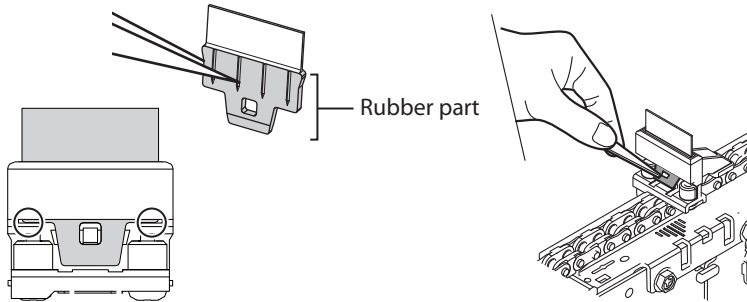
- 6** Nip the bottom edge of the wiper blade with tweezers and release the hook of the plastic projection.



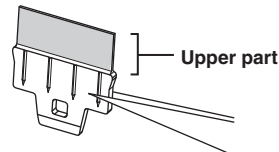
- 7** Remove the wiper blade upward.



- 8** Nip the rubber of the new wiper blade with the tweezers and insert it straight downward, and install it by hooking the hole in the rubber to the plastic projection.

**Note**

- When handling the wiper blade, do not touch its upper part by hand or nip it with tweezers because the upper part directly contacts with the print head.



- 9** Close the wipe cover and front cover.

#REPLACE FINISHED
*NO

- 10** Select [* YES] and press the  key to finish the replacement.

#REPLACE FINISHED
*YES

Note

- The printer automatically adds up the usage time period of the wiper blade and displays a message prompting you to replace the wiper blade. On the premise that a new wiper blade is installed and [*YES] is set, the accumulator calculates the usage time period. (When [*YES] is set, the value of accumulator is reset.) If this premise is ignored, the time for replacement is erroneously detected.
- Replace the all eight wiper blades at a time. If they are replaced partially, a wrong replacement message may appear.

Correcting the edge sensor position

Print out the edge sensor adjustment pattern, and correct the edge sensor position.
After printing, measure the distance and specify the parameter.

- 1 Hold down the **MENU** key until the [ADJUST] menu appears.

↑PRINTER	SETUP↓
←ADJUST	HEATER→

- 2 Press the **⏪** key to enter the [ADJUST] menu.

#TEST PRINTS
>NOZZLE PRINT

- 3 Press the **OK** key.

- 4 Hold down the **⏴** key until the [CHECK EDGE SENSOR] menu appears.

#TEST PRINTS
>CHECK EDGE SENSOR

- 5 Press the **OK** key.

#TEST PRINTS
*OK?

- 6 Press the **OK** key.

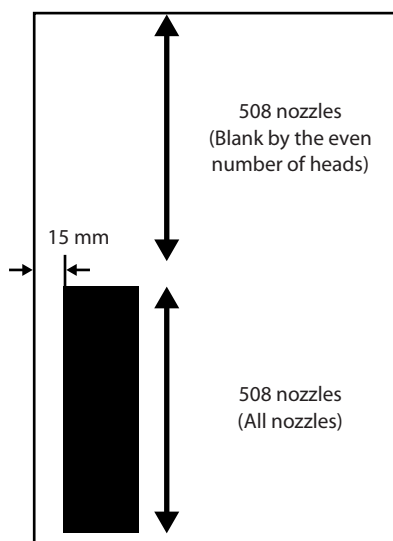
#TEST PRINTS
*EXECUTING

- 7 Judge the printing results.

Measure the margin of the printing result with a square, and obtain an difference between the measured margin and the value (15 mm) shown in the specifications.

If the difference is 15 mm, complete this procedure.

If not, follow the procedure below to correct the value.



- 8** Press the  key to enter the [ADJUST] menu.

#EDGE SENSOR ADJ VAL
>±Y.Ymm

- 9** Press the  key to display the [EDGE SENSOR ADJ VAL] menu, and press the  key.

- 10** Based on the printed sensor adjustment pattern, enter the correction value of the edge sensor position.

#EDGE SENSOR ADJ VAL
>±Y.Ymm

- 11** Press the  key to decide the entered value.

#EDGE SENSOR ADJ VAL
>+0.0mm

- 12** Press the  key to return to the higher-level menu.

To obtain the correction value:

Obtain the correction value by measuring the margin setting the reference value to **15 mm**.

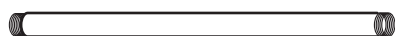
<Example>

The margin is **14 mm**: The correction value is **-1.0 mm**.

The margin is **16 mm**: The correction value is **+1.0 mm**.

Adjusting tension bar length

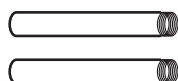
A set of tension bars for the supply side includes the following parts. Use suitable ones depending on the width and type of the media.



L size (48 inches) (123 cm): 1 piece



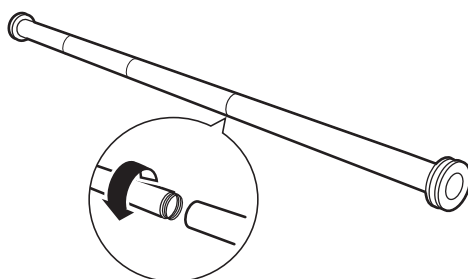
M size (24 inches) (61 cm): 1 piece



S size (16 inches) (41 cm): 2 pieces

■ Coupling tension bars (supply side)

Tension bars can be connected to each other by screwing. The length of these four tension bars is 104 inches when connected. The L-size tension bar whose both ends are convex is always used. M-size and S-size tension bars whose one end is concave are coupled with the L-size tension bar.



HINT

– In case of vinyl chloride media, use only one S size tension bar (16 inches) (about 41cm).

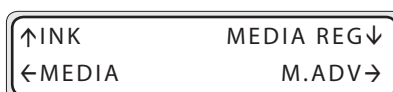
Print head cleaning

The following two types of print head cleaning are provided. Use the suitable one.

Type of cleaning	Usage
NORMAL ALL	Recovery from nozzle-out
STRONG ALL	Recovery from nozzle-out that is not rectified by [NORMAL ALL]

Print head cleaning procedure

- 1 Set the printer to the offline state.
(Press the **ONLINE** key.)



- 2 Press the **MENU** key to display PH.REC MENU.



MENU



- 3 Press the **⏮** key to enter the head cleaning menu.



Note

- If ink filling from the ink tray is not yet completed, the ink supply menu is displayed instead of the cleaning menu. (☞ P.2-84)
- Prepare an ink pack and perform ink supply operation.

- 4 To change the parameter, press the **OK** key.



- 5 Select the option for cleaning with the **⬆** and **⬇** keys.



6 Press the  key.

#PH RECOVERY
*BOTTLE OK?

7 Select head numbers with the  key or the  key, and reverse (display or non-display) the selected head numbers with the  key or the  key.

#SELECT: 8 7 6 5 4 3 2 1 F B
*BOTTLE OK?

Note

- The indicated head numbers denote the heads to be cleaned.

8 Press the  key.

#PH REC XXXXXXXX
*BOTTLE OK?

XXX: Selected head numbers

9 Check visually that the waste ink bottle is not full and press the  key once again.

#PH RECOVERY
*CLEANING XXX

XXX: This value is counted down every 10 seconds.

Note

- Print head cleaning takes several minutes.
- When the cleaning starts, the required time is displayed and the time is counted down every 10 seconds.

10 Upon completion of the print head cleaning, the cleaning process returns to step 3.

#PH RECOVERY
>NORMAL

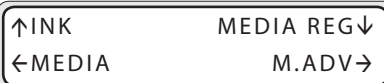
11 Press the  key to return to the offline state (menu mode).

↑REWIND FORM FEED↓
←PH.REC PH.MAIN→

Feeding the media [Feed]

This function feeds the media.

- 1** Set the printer to the offline state.
(Press the **ONLINE** key.)



- 2** Press the **MENU** key to display the menu group that includes FORM FEED MENU.



- 3** Keep pressing the  key.



While the  key is pressed, the media is fed.

- 4** When the  key is released, the printer stops feeding the media and returns to the offline state (menu mode).



HINT

– When the  key is pressed in the online state (idle mode), the printer can feed media without entering the FORM FEED MENU.

Backfeeding the media [Backfeed]

This function backfeeds the media.

- 1** Set the printer to the offline state.

(Press the **ONLINE** key.)

↑INK	MEDIA REG↓
←MEDIA	M.ADV→

- 2** Press the **MENU** key to display the REWIND MENU.

↑REWIND	FORM FEED↓
←PH.REC	PH.MAIN→

- 3** Keep pressing the  key.

REWINDING MEDIA

While the  key is pressed, roll media is fed back.

When cut-sheet media is used, it is ejected.

- 4** When the  key is released, the printer stops backfeeding the media and returns to the offline state (menu mode).

↑REWIND	FORM FEED↓
←PH.REC	PH.MAIN→



HINT

– When the  key is pressed in the online state (idle mode), the printer can backfeed media without entering the REWIND MENU.

Note

- Apply the roll feed unit to backfeed media only for a short distance. For a long distance, carefully apply it so that the media slack would not reach the floor.
- Besides note that the take-up reel unit does not perform the backfeed operation. Do not backfeed media with the take-up reel unit's operation.

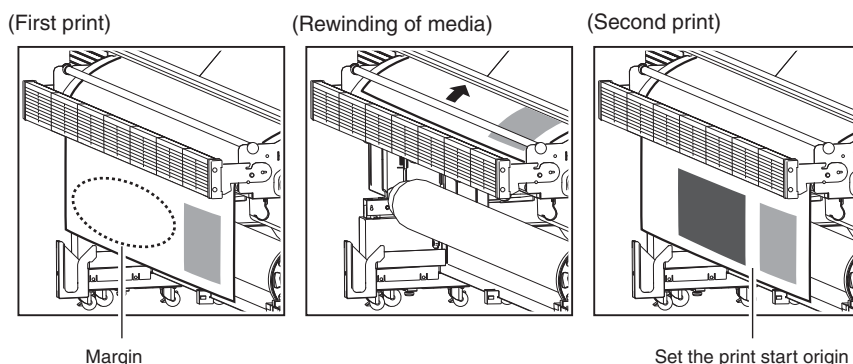
Nest function

2

Basic operation

<Nest function>

The nest function is a function to re-set the origin of print. For example, when printing a small image of A4 size is printed on the media of 64-inch width, a large margin is created as shown below. In such a case, by rewinding the printed media and re-setting the print start origin, the margin can be effectively used for printing.



Note

- Complete this operation as immediately as possible. Or perform the cleaning as the print heads dry and the print image quality is affected.

<Nest function>

1 Return the media by operating [Back Feed].

(☞P.2-98 Backfeeding the media [Backfeed])

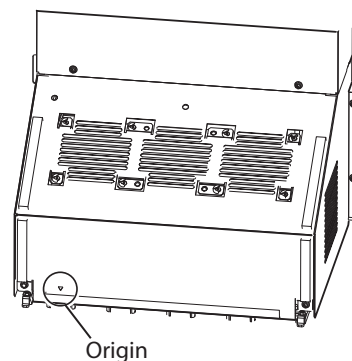
Note

- Rewind the media after the printed image completely dries. If this function is used while the media is not sufficiently dry, printed image obtained during the first printing will be damaged.

2 Keep pressing the ⏮ key for 1.5 seconds in the online state (idle mode), the carriage moves and the nest function becomes available.

Align the ▽ mark at the lower left of the front panel of the carriage with the origin.

NEST ORIGIN SETTING
*OK?



-
- 3** While "NEST ORIGIN SETTING" is displayed, move the carriage with the ◀ and ▶ keys to the position to be set as an origin.

NEST ORIGIN SETTING
CARRIAGE MOVING

- 4** Press the  key to fix the nest origin setting.

The carriage returns and the printer enters the online state (idle mode) and becomes ready to print.

NEST ORIGIN SETTING
*OK?



NEST ORIGIN SETTING
PLEASE WAIT



PRINTER READY
NEST:1625/PAPER

To cancel the set origin, keep pressing the  key for 1.5 seconds in the idle mode or raise the pressure control knob. When the origin is cancelled, the display returns from [NEST] to [ROLL].

<Display when cancelled>

PRINTER READY
ROLL:1625/PAPER

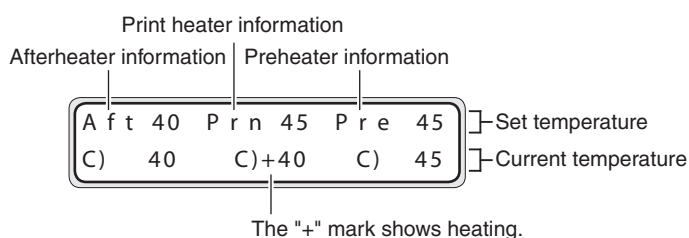
Changing temperature using the heater control menu

The heater initial value that is set with MEDIA REG MENU is automatically set for the temperature of each heater. Therefore, the heater control menu is not needed normally. The heater control menu is used to fine-adjust the heater temperature during printing or to monitor the current heater temperature.

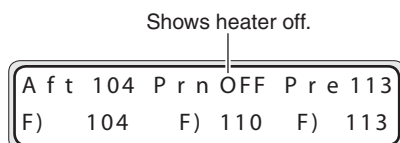
■ Heater control menu display

Press the **HEATER** key to display the heater control menu.

(Centigrade temperature display)



(Fahrenheit temperature display)



■ Key operation in the heater control menu

 and  keys	Select a heater for which temperature is to be set.
 and  keys	Set the heater temperature.
 key	Selects heater ON or OFF.
 key	When this key is pressed for 1.5 seconds while the heater control menu is displayed, all the heaters are forcibly turned on even without print operation. (The heating control starts.)
 key	Pressing this key for 1.5 seconds with the heater control menu displayed cancels the heater-on state made forcibly by the  key. (The heating control stops.)

■ To finish displaying the heater control menu

Press the  key while the heater control menu is displayed.



- Even if heater temperature is changed in the heater control menu, the initial temperature value of each heater stored in MEDIA REG MENU remains unchanged.
- When the temperature unit in SETUP MENU is set to Fahrenheit, every temperature is displayed in Fahrenheit.

■ When the heater control menu display finishes automatically

HEATER DISPLAY END

If there is no key input for 30 seconds while the heater control menu is displayed, a message "HEATER DISPLAY END" appears automatically for two seconds and then the heater control menu display finishes. While this message is displayed, no key input is disabled.

■ Reference information on media types and heater settings

The heater set temperatures and reference set values (initial values) of print mode for each type of media are shown in the table below. Change the settings for use according to the media in use.

Media type	Media selection	Recommended heater temperature setting			Print mode
		Afterheater	Printheater	Preheater	
Glossy vinyl chloride	Glossy	45°C	40°C	45°C	Normal 8-path bidirectional
Matte vinyl chloride	Matte	45°C	40°C	45°C	Normal 8-path bidirectional
Banner	Banner	45°C	40°C	45°C	Normal 8-path bidirectional

It is recommended that temperature of the afterheater, print heater, and preheater be set to less than 50°C, 45°C, and 50°C respectively.

Note

- Setting a high temperature for the print heater makes ink fusion better, but may cause wrinkles in the media or matte of the print surface. Adjust the heater temperature according to the media type and ambient temperature.
- When the print heater is set to a high temperature, the printer lowers the printing speed automatically in some cases to maintain stable print quality.
- Set the afterheater and preheater temperatures so that they are nearly +5°C higher than the print heater temperature. Bad temperature balance between afterheater/preheater and print heater may cause wrinkles in the media.
- Setting a high temperature for the print heater may cause nozzle-out.

■ Heater temperature setting procedure

- (1) When a media type is selected in media setting, initial temperature values of each heater for the selected media type are displayed on the menu.

(P.2-101 [Heater control menu display])

- When the initial temperature value is set, the heater is turned on.
(Heating does not start until print starts.)
- When the initial temperature value is set to [**], the heater is turned off.
(The heater set temperature is not displayed.)

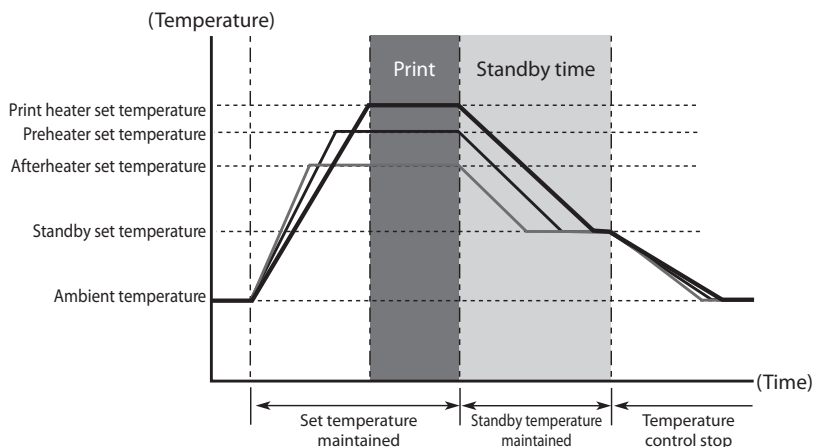
- (2) When print data is received from the host Computer, either of the following is performed before printing.

- The set temperature on the heater control menu is overwritten by the temperature that is set by the RIP (print data, job), and heating starts.
- When no temperature is set by the RIP (print data, job), heating starts with the set temperature on the heater control menu.

- (3) When the current temperature of the afterheater, print heater, and the preheater reaches the temperature that is 1°C lower than the set temperature, the printer starts printing.
 - When the current temperature is higher than the set temperature, the printer starts printing before the temperature lowers. The temperature control is performed continuously after printing starts because these heaters keep their set temperature.
- (4) The heater temperature varies during printing by changing the set temperature with the heater control menu. Even after printing is completed, the set temperature changed in the heater control menu remains as "set temperature." However, the initial temperature value of each heater stored in MEDIA REG MENU remains unchanged.
- (5) The subsequent printing returns to (2).



- The three heaters work in the state displayed on the LCD regardless of the means to set their temperatures.
- The following figure shows the heater temperature control system for printing. The standby time can be changed with the heater menu in the offline mode. (P.3-62 [Heater menu])



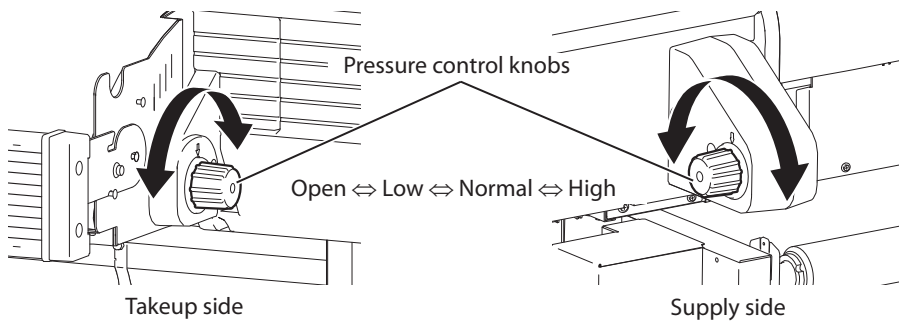
How to use the pressure control knob

■ How to use the pressure control knob

The pressure control knob is used to adjust the media pressing force of the media feeding grid roller according to the media to be used.

Set the pressure control knob properly according to the media. The pressure force can be adjusted to "low," "normal" or "high." The pressure control knob has four positions: "high," "normal," "low," and "open" used when installing media. It can be turned both clockwise and counterclockwise.

The pressure control knob is provided on the supply side and takeup side. The pressure force can be adjusted on the supply side or takeup side because operation of the two pressure control knobs is interlocked.



- Basically set the pressure force to "normal," at this setting most of the media provide a good-accuracy print. Set the pressure force to "low," when printing on the flexible media such as fabric banner.

How to use the head up/down mechanism

The printer automatically adjusts the head height to the best height when the printer is turned on or when media is set. To adjust the head height according to the media to be used, select MEDIA REG MENU on the operation panel and adjust the head height.

Note

- Adjust the head height so that the head does not contact with the media. Friction of the head may cause poor firing of the head and degrade the print quality. On the other hand, excessive head height from the media will also degrade the print quality. Use the printer with the head height that is automatically adjusted by the printer.

1 Set the printer to the offline state.

Press the **ONLINE** key.



2 Press the key to display the MEDIA REG MENU.



3 Press the key and then or key to display [PH HEIGHT VAL].



4 Press the key, and enter the head height adjustment value with the or key.

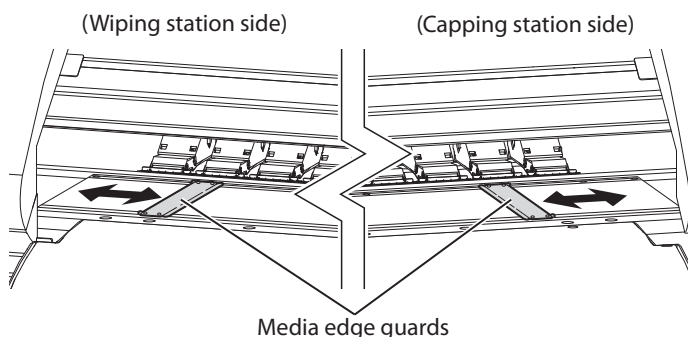
The adjustment value range is: -0.3 to +1.0 mm.



5 Press the key to determine the adjustment value.

How to use media edge guards

To protect the print head from warp and feathering at both ends of media, use media edge guards in the media feed path and slide it to meet the media width.



HINT

[Media edge guard specifications]

- Capable of media thickness of up to 1 mm.
- Decreases the print area.
- Reduces the effect of the suction fan.

Note

- Make the media edge guard usage setting in the MEDIA REG MENU from the operation panel. The right and left margins of the media are controlled by this setting.
- When media edge guards are used, the right and left print area margins increase to 10 mm. (When no media edge guard is used, the margins are 5 mm.)
- When the media edge guard is stained, wipe it out.
- Remove feathering that cannot be removed by the media edge guard beforehand as it may cause nozzle-out.

Periodic maintenance

This section describes periodic inspection and maintenance of the printer.

Periodic inspection/maintenance guide

This printer needs to be periodically inspected and maintained. The following table lists periodic inspection/maintenance items. Perform each inspection/maintenance item referring to the pages shown in the table.

	Classification	Inspection and maintenance	Reference page
1	Daily inspection and maintenance	Check the wiper blade for contamination	2-109
		Replenish wiper cleaning liquid	2-110
		Clean the capping unit	2-111
		Replenishing spittoon absorber liquid	2-113
		Check the waste ink bottle	2-113
		Clean the carriage	2-114
		Clean the media edge guard	2-117
		Performing normal cleaning	2-117
		Performing nozzle print	2-117
2	Bimonthly inspection and maintenance	Cleaning the print head	2-118
		Replacement of the spittoon case	2-118
3	Maintenance conducted when leaving the printer in the power-off state for more than two weeks	Service clean	2-121
4	Maintenance conducted when operating the printer after power-off for more than two weeks	Head wash	2-122
		Charging ink after head wash	2-123
5	Maintenance conducted when operating the printer after power-off for less than two weeks	Head wash	2-124
		Charging ink after head wash	2-125
6	Maintenance conducted when the printer has been left in the power-off state for more than one month	The service call error is displayed. Contact the sales dealer or our nearest service depot.	2-125

For details of operation, refer to **Section 3**.

Daily inspection and maintenance

To maintain stable print quality, carry out the following nine items everyday.

- (1) Check the wiper blade for contamination.
- (2) Replenish wiper cleaning liquid.
- (3) Clean the capping unit.
- (4) Replenish the spittoon absorber liquid.
- (5) Check the waste ink bottle.
- (6) Clean the carriage.
- (7) Clean the media edge guard.
- (8) Perform normal cleaning.
- (9) Perform nozzle print.

Note

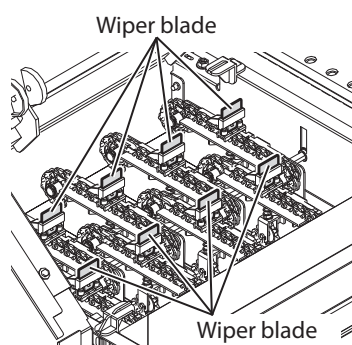
- Carry out these items everyday.
- Be sure to use the cleaning liquid and cleaning swabs specified by us.

< Checking the wiper blade for contamination >

Visually check the wiper blade for contamination and scratches.

If the wiper blade is scratched, replace it. (☞ P.2-90 [Replacing the wiper blade])

- 1** Open the front cover, and then open the wipe cover.
- 2** Visually check the wiper blade for contamination and scratches.



Note

- Check the level of the remaining wiper cleaning liquid. If small amount of wiper cleaning liquid is remaining, replenish it. (☞ P.2-110 [Replenishing wiper cleaning liquid])

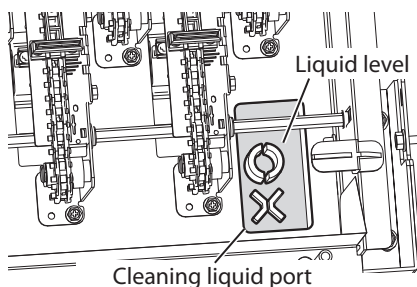
- 3** Close the wipe cover and the front cover.

<Replenishing wiper cleaning liquid>

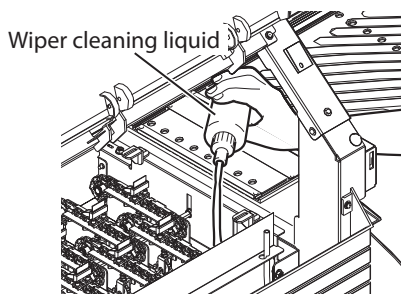
When the remaining wiper cleaning liquid becomes little, replenish it.

1 Open the front cover, and then open the wipe cover.

2 Visually check the wiper cleaning liquid level through the cleaning liquid port at the lower right of the top face of the wipe unit.



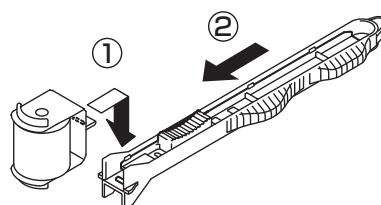
If the liquid level is below the top of the "X" mark that can be seen inside the cleaning liquid port, replenish wiper cleaning liquid to a level below the top of the "O" mark.



3 Close the wipe cover and the front cover.

<Cleaning the capping unit>

- 1** Attach the cleaning roller to the cleaning stick.



- 2** Set the printer to the offline state and press the **MENU** key to display PH.MAIN MENU.

↑INK	MEDIA REG↓
←MEDIA	M.ADV→

- 3** Press the **➤** key to enter PH.MAIN MENU. The cap cleaning menu is displayed.

#CAP CLEANING
>

- 4** Press the **OK** key. When the confirmation screen appears, press the **OK** key again.

The carriage moves.

#CAP CLEANING
>



#CAP CLEANING
*OK?



CARRIAGE MOVING
PLEASE WAIT

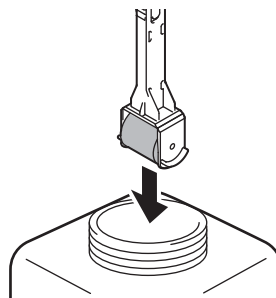


- HINT** – When the carriage moves, the warning beeps.
(☞P.3-59 [(5) BEEP (cap open)])

- 5** Open the front cover and then open the cap cover.

OPEN COVER
CLEAN CAP

-
- 6** Soak the cleaning roller in the cap cleaning liquid.

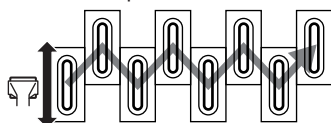


Note

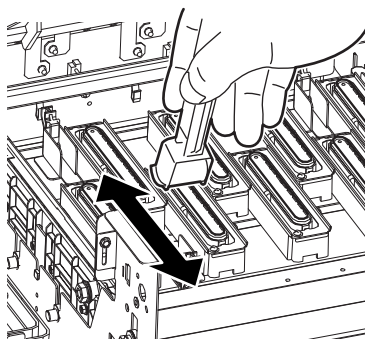
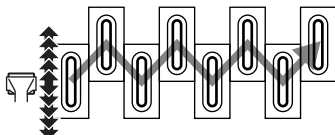
- Do not soak the cleaning roller that once cleaned the cap in the cap cleaning liquid bottle. The cap cleaning liquid will be contaminated.

- 7** Clean the top surface of the cap by rolling the cleaning roller.

1. Roll the roller back and forth on each cap.



2. Then roll the roller back and forth 10 times on each cap.



Note

- The cleaning roller is intended for a single use only. Use a new cleaning roller for each cleaning.

- 8** Close the cap cover and the front cover.

The print head returns automatically to the home position.

Note

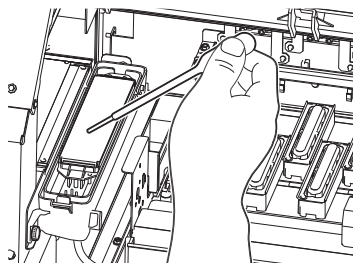
- Do not leave the print head away from the capping unit unnecessarily. The print head dries, which may result in a malfunction.
- If nozzle-out still occurs even after the above cleaning is performed, remove foreign matters and ink stains on the cap with a cleaning swab dampened with cap cleaning liquid while checking visually.
- Be careful so that the cap cleaning liquid does not adhere to any part other than the cap.

<Replenishing spittoon absorber liquid>

1 Open the front cover, and then open the cap cover.

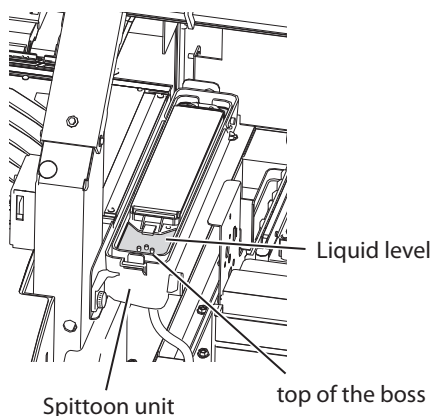
2 Check the spittoon absorber liquid level in the spittoon unit visually.

If the liquid level has become so low that the boss for liquid quantity measurement is visible, refill the spittoon absorber liquid up to the same level as the top of the boss.



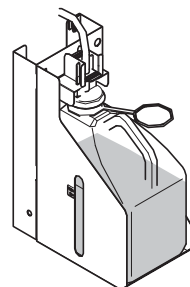
If the spittoon absorber liquid should be replaced, see P.2-118 "Replacement of the spittoon case".

3 Close the cap cover and the front cover.



<Checking the waste ink bottle>

Check whether the waste ink bottle is full. When it is full, dispose of the waste ink in an appropriate container to clear out the waste ink bottle.



<Cleaning the carriage>

Some lint soaked with ink may be adhered to the head guard and at the both sides of the head top section. Perform cleaning to remove such lint frequently. Remove it carefully as it may contaminate the surface of prints.

Wipe dust off the platen.

- 1 Set the printer to the offline state and press the **MENU** key to display PH.MAIN MENU.



- 2 Press the **➤** key to enter PH.MAIN MENU. The cap cleaning menu is displayed.



- 3 Press the **OK** key. When the confirmation screen appears, press the **OK** key again.

The carriage moves.

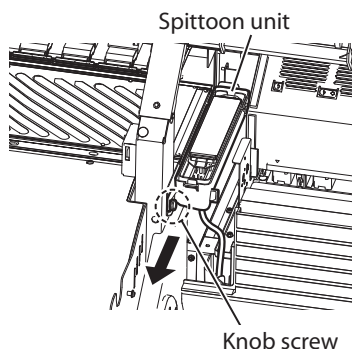


- When the carriage moves, the warning beeps.
(☞P.3-59 [(5) BEEP (cap open)])

- 4 Open the front cover and then open the cap cover.



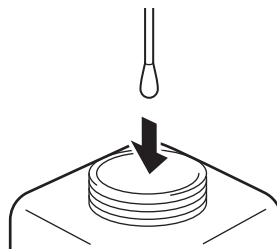
- 5** Remove the knob screw of the spittoon unit and remove the spittoon unit.



Note

- The spittoon unit contains cleaning liquid. Be careful not to spill it.

- 6** Soak the cleaning stick in the cap cleaning liquid.



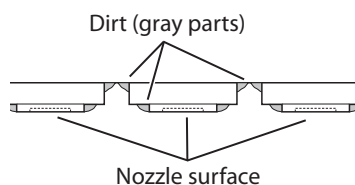
Note

- Do not soak the cleaning stick that you used for cleaning in the cap cleaning liquid bottle. The cap cleaning liquid will be contaminated.

- 7** Move the carriage manually to the position where the spittoon unit was detached, and clean the right and left sides of the top section of the eight heads below the carriage, using a cleaning stick.



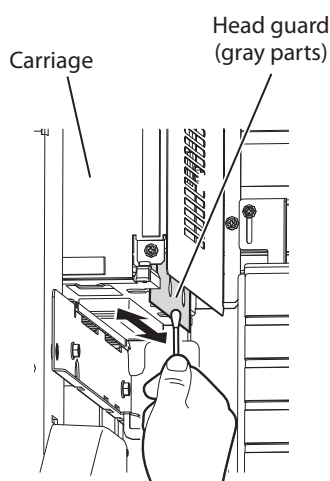
<Head top section>



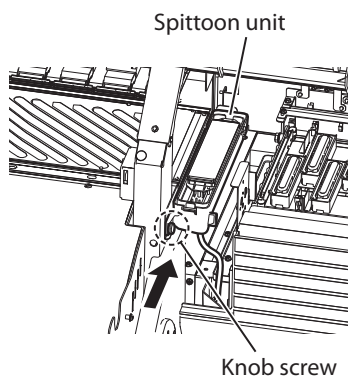
Note

- Do not rub the head nozzle surface with the cleaning stick. It may cause a failure.
- The cleaning roller is intended for a single use only. Use a new cleaning roller for each cleaning.

- 8** Clean the head guard at the both sides of the carriage using the cleaning stick.



- 9** Move the carriage manually onto the platen (left side) and secure the spittoon unit with the knob screw.



- 10** Close the cap cover and then close the front cover.

The carriage returns automatically to the home position.

Note

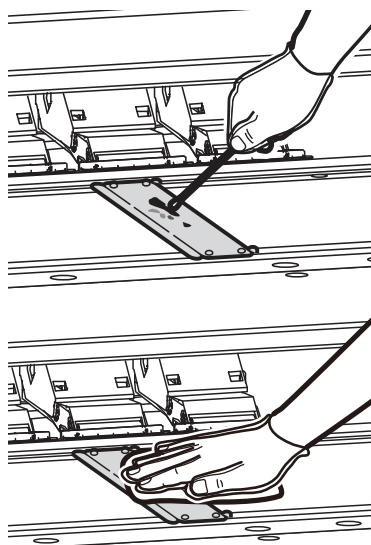
- Do not leave the carriage away from the capping unit. Finish the procedure above within five minutes and cap the print head. Or the print head dries, which may result in a malfunction.

<Cleaning the media edge guard>

Note

- Perform the procedure below with gloves on.

- 1** Open the front cover.
- 2** Dip a cleaning swab in the cap cleaning liquid. Checking visually, scrub stains on the media edge guard.
- 3** Clean the stains with a soft and clean cloth.
- 4** Close the front cover.



<Performing normal cleaning>

Select PH.REC MENU from the operation panel, and select NORMAL ALL for cleaning.

<Performing nozzle print>

Select ADJUST MENU from the operation panel, and select TEST PRINTS to perform the nozzle print.

Check for nozzle-out and incorrect print. The nozzle print is also used to check the print head before the first print everyday or after the head is moved out of the capping unit for cap cleaning. If nozzle-out is found in the nozzle print, perform the normal cleaning.

Note

- Do not leave the print head outside the capping unit. Finish the nozzle print within five minutes and cap the print head. After the nozzle print is completed, perform normal cleaning for the print head.

Bimonthly inspection and maintenance

<Cleaning print head with head cleaning kit>

Clean the print head almost every two months following the instruction supplied with the head cleaning kit.

<Replacement of the spittoon case>

Replace the spittoon case normally once in a month. Exchange the spittoon absorber liquid at the same time.

- 1** Set the printer to the offline state and press the **MENU** key to display PH.MAIN MENU.

↑REWIND	FORM FEED↓
←PH.REC	PH.MAIN→

- 2** Press the **➤** key to enter PH.MAIN MENU. The cap cleaning menu is displayed.

#CAP CLEANING
>

- 3** Press the **OK** key. When the confirmation screen appears, press the **OK** key again.

The carriage moves.

#CAP CLEANING
>



#CAP CLEANING
*OK?



CARRIAGE MOVING
PLEASE WAIT



- When the carriage moves, the warning beeps.
(☞P.3-59 [(5) BEEP (cap open)])

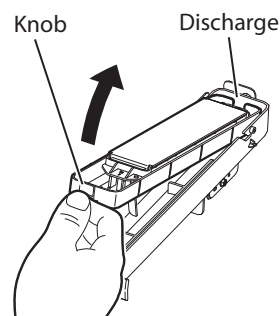
- 4** Open the front cover and then open the cap cover.

OPEN COVER
CLEAN CAP

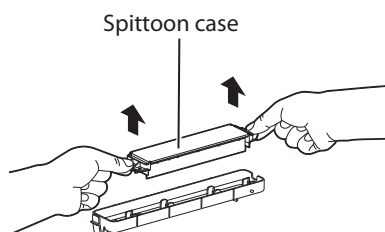
- 5** Press the knob at the near side of the case containing the spittoon absorber liquid to open the lid, raise the front side of the spittoon absorber liquid case to discharge the spittoon absorber liquid to the backside.

The discharged spittoon absorber liquid will go into the waste ink bottle.

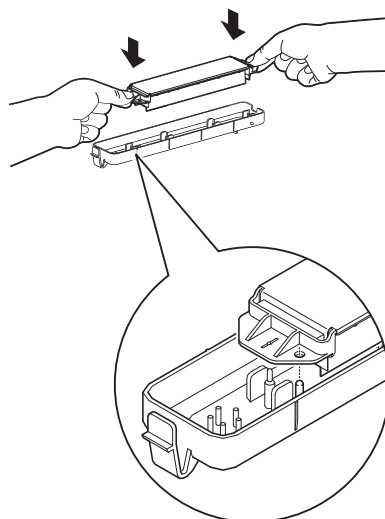
When discharge is completed, put the spittoon absorber liquid case back into the original position.



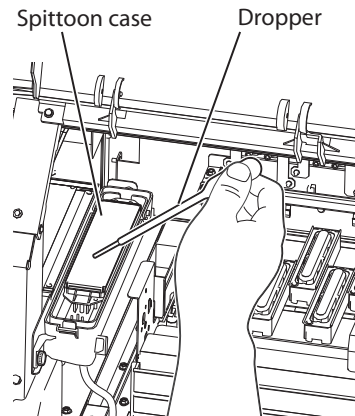
- 6** Hold the finger grip at the spittoon case's both side. Then remove the spittoon case by sliding upward.



- 7** Set a new spittoon case's locating hole to the protrusion, and fix it horizontally by pressing slightly.



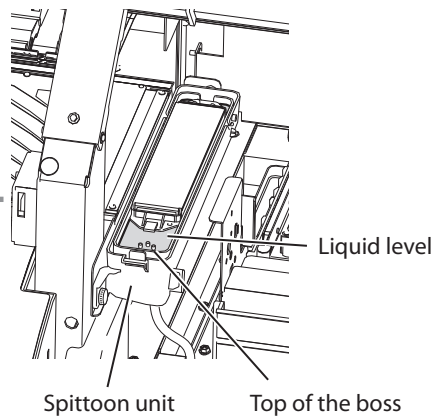
-
- 8** Moisten the spittoon case with the spittoon absorber liquid using a dropper.



- 9** Confirm that the spittoon absorber liquid's top surface is as high as the top of the boss.

NOTE

- In the spittoon case, the spittoon absorber liquid is absorbed by the sponge, which may lower the liquid's top surface. In such a case apply the liquid additionally.



- 10** Close the cap cover and then close the front cover.

The carriage returns automatically to the home position.

Note

- Do not leave the carriage away from the capping unit unnecessarily. Finish the procedure above within five minutes, and cap the print head. Or the print head dries, which may result in a malfunction.

Maintenance conducted when leaving the printer in the power-off state for more than two weeks

Clean the print head and the ink flow path with the storage liquid, and leave the printer with storage liquid filled. Eight storage liquid packs and eight dummy subcartridges are necessary for this maintenance. Prepare the storage liquid kit (☞ P.1-10). The storage liquid kit contains eight storage liquid packs and eight dummy subcartridges. Use the eight storage liquid packs completely in a single service clean.

<Service clean> (☞ P.2-55)

Select PH.MAIN MENU from the operation panel, and then select the service clean.

#INK SYSTEM OPT
>STORE INK SYS

After the service clean is completed, turn off the power of the printer with the storage liquid cartridges inserted, and then leave the printer. To restart the printer after the service clean and leaving, the head wash described on the following page is necessary.

Maintenance conducted when operating the printer after power-off for more than two weeks

Clean the print head and the ink flow path with the cleaning liquid. Eight cleaning liquid packs and eight dummy subcartridges are necessary for this maintenance. Prepare the cleaning liquid kit (☞P.1-10). The cleaning liquid kit contains eight cleaning liquid packs and eight dummy subcartridges. Use the eight cleaning liquid packs completely in a single head wash.

<Head wash> (☞P.2-61)

Select PH.MAIN MENU from the operation panel, and then select the head wash.

#INK SYSTEM OPT
>CLEAN INK SYS

After the head wash, perform the CHARGE (INKPACK) to prime the ink system.

Note

- To keep the print head in good condition, the printer performs the fillcap operation automatically 72 hours after the printer enters the standby state, and then every 3 days. The printer power should be kept on for the fillcap operation except when the printer is not used for a long time period. To protect the print head, do not leave the printer for more than one month with no ink charged.
- Do not open or close the rear cover or lever during the service clean and head wash. Otherwise, the operation may have to be restarted from the beginning while wasting the ink and the cleaning liquid.

<Charging ink after head wash>

To use the printer again after it is left for a certain period without printing, perform head wash and then charge ink in the printer.

For the head wash, refer to P.2-61

For the ink filling, refer to P.2-84

Select PH.MAIN MENU from the operation panel, and then select CHAGE (INKPACK).

#INK SYSTEM OPT
>CHARGE(>INKPACK)

Insert ink trays and charge ink.

After charging the ink, leave the printer for at least one hour. Carry out daily inspection and maintenance, and then perform the nozzle print. If nozzle-out is found in the nozzle print, perform [NORMAL ALL] from PH.REC MENU.

Note

- If an ink pack containing little ink is set, a message prompting you to replace the ink pack appears. Set an ink pack containing more than 30% ink.

Maintenance conducted when operating the printer after power-off for less than two weeks

Clean the print head and the ink flow path with the cleaning liquid. Eight cleaning liquid packs and eight dummy subcartridges are necessary for this maintenance. Prepare the cleaning liquid kit (☞P.1-10). The cleaning liquid kit contains eight cleaning liquid packs and eight dummy subcartridges. Use the eight cleaning liquid packs completely in a single head wash.

<Head wash> (☞P.2-61)

Select PH.MAIN MENU from the operation panel, and then select the head wash.

#INK SYSTEM OPT
>CLEAN INK SYS

After the head wash, perform CHAGE (INKPACK) to prime the ink system.

Note

- To keep the print head in good condition, the printer performs the fillcap operation automatically 72 hours after the printer enters the standby state, and then every 3 days. The printer power should be kept on for the fillcap operation except when the printer is not used for a long time period. To protect the print head, do not leave the printer for more than one month with no ink charged.
- Do not open or close the rear cover or lever during the service clean and head wash. Otherwise, the operation may have to be restarted from the beginning while wasting the ink and the cleaning liquid.

<Charging ink after head wash>

To use the printer again after it is left for a certain period without printing, perform head wash and then charge ink in the printer.

For the head wash, refer to P.2-61.

For the ink filling, refer to P.2-84.

Select PH.MAIN MENU from the operation panel, and then select CHAGE (INKPACK).

#INK SYSTEM OPT
 >CHARGE(>INKPACK)

Insert ink trays and charge ink.

After charging the ink, leave the printer for at least one hour. Check the wiper cleaning liquid amount. If the remaining is getting low, result it. Then perform the nozzle print. If nozzle-out is found in the nozzle print, perform [NORMAL ALL] from PH.REC MENU.

(☞ P.3-49)

Note

- If an ink pack containing little ink is set, a message prompting you to replace the ink pack appears. Set an ink pack containing more than 30% ink.

Maintenance conducted when the printer has been left in the power-off state for more than one month

The service call error is displayed regardless of whether service clean has been performed or not. Contact the sales dealer or our nearest service depot.

Note

- To protect the print head, do not leave the printer in the power-off state for more than two weeks with no storage liquid charged.
- When leaving the printer for more than one month, contact the sales dealer or our nearest service depot beforehand.

Cleaning

■ Clean the exterior

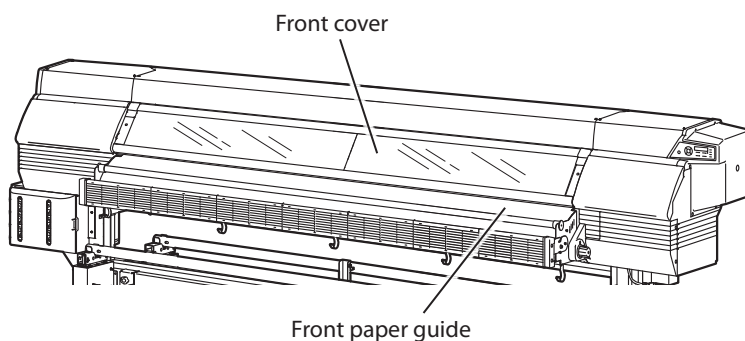
If the printer exterior is contaminated, moisten a soft cloth with water or water-diluted neutral detergent, wring it, and clean the exterior with the wrung cloth.

Note

- Before cleaning the printer exterior, be sure to turn off the Printer and Heater power supply switches.
- Never use volatile solvent such as thinner and benzene. The coating may come off or discolored.

■ Clean the front cover and front paper guide

If the printer is contaminated with dust and paper dust, remove them using a vacuum cleaner. If the contamination is heavy, wipe it out with a soft cloth moistened with neutral detergent.

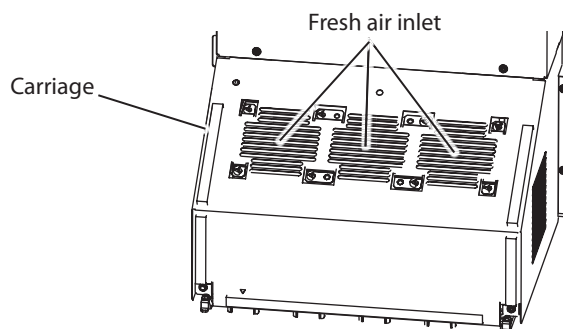


Note

- Before cleaning the front cover and rear paper guide, be sure to turn off the Printer and Heater power switches and the heater power switch.
- Do not blow off dust and paper dust as they may degrade print quality.

■ Carriage cleaning

Vacuum the dust off the carriage's fresh air inlet. Monthly cleaning is recommended.



3

Menu of operation panel



This section describes the basic menu operation on the operation panel, structure of the operation panel, and operation in each menu.

(Content of this section)

LCD display and state of the printer	3-2
Online operation	3-6
Basic menu operation in offline mode.....	3-12
Explanation of each menu operation	3-27

LCD display and state of the printer

This section describes how to read LCD display and state of the printer.

How to read LCD display

(1) Initialization state display

This display shows that the initialization is in progress at the startup of the printer.

- When the printer starts up normally, the printer automatically enters the online idle mode.

Booting up...



INITIALIZING...
PLEASE WAIT

(2) Online state (idle mode) display

This display shows that the printer is ready to receive data from the computer. (The ONLINE LED is ON.)

- When the  key is pressed in the idle mode, the printer can go to PH.REC MENU.
- For the display of media width, either meter unit system or inch unit system can be selected by the setting of [Length Unit] ( P.3-58) of the system menu.

PRINTER READY

ROLL: 1625 / PAPER

Media name: PAPER

Media of 1625 mm (64 inches) width

Roll media is set

(3) Online state (printing mode) display

This display shows that the printer is printing data.

PRINTING

ROLL: 1625 / PAPER

(4) Online state (scan standby) display

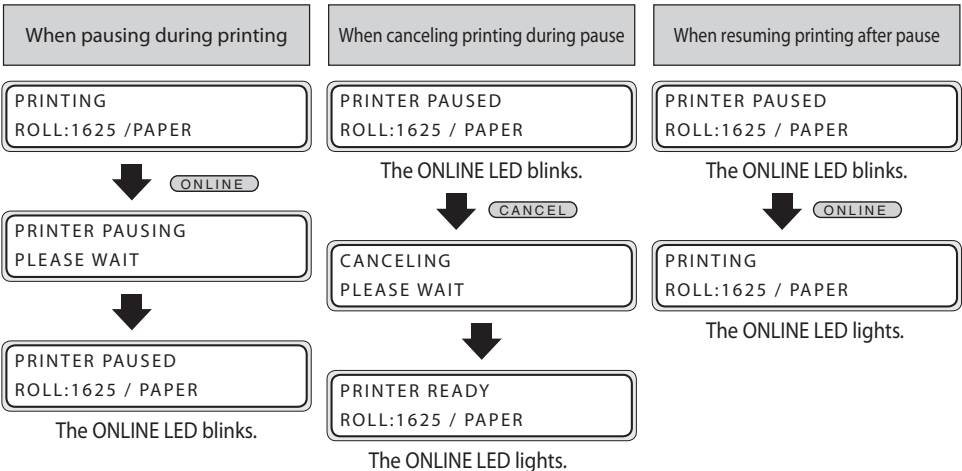
This display shows that the scan of the print head is in the standby state for reasons such as data printing, warmup or waiting for data transfer.

RESTING

ROLL: 1625 / PAPER

(5) Online state (print pause mode) display

This display shows print pause state.



- The print head can be cleaned by pressing the **OK** key in the print pause mode (the **ONLINE** LED blinking).

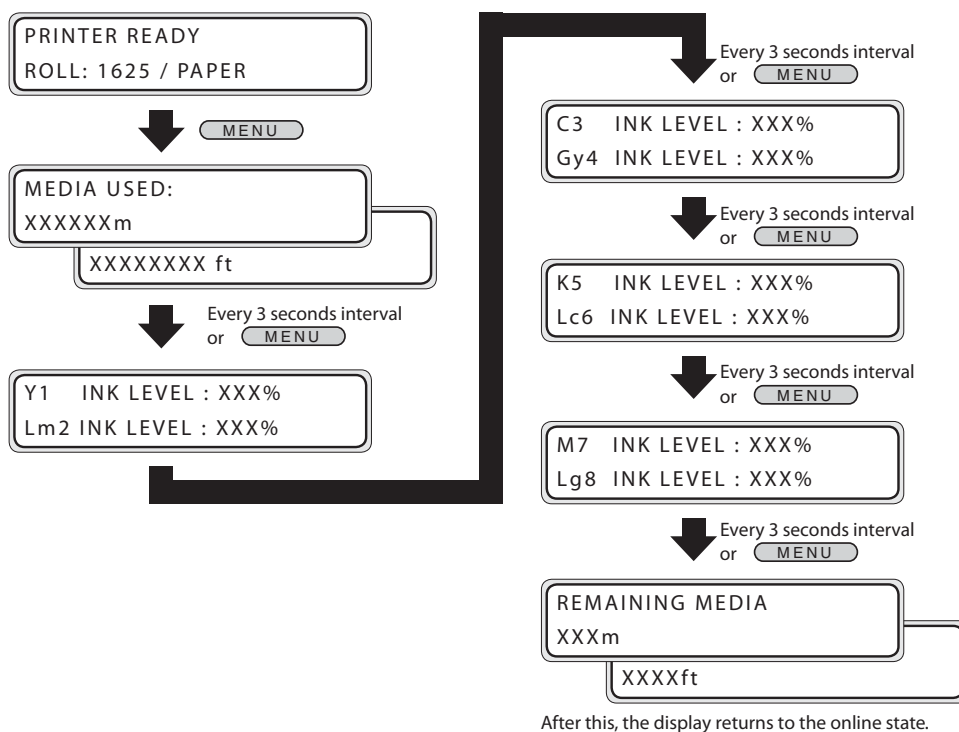
(6) Online state (preheating) display

This display shows that the preheater and printhead are being heated to the set temperature.



(7) Online state (print information mode) display

This display shows media traveling distance, remaining ink, and remaining media.



Note

- When remaining ink is lacking, a message “YYY INK LEVEL:LOW” appears.

The following messages appear when daily maintenance is not performed or when the life and the replacement time of consumables are drawing near.

When daily maintenance is not performed as usual

PERFORM DAILY
MAINTENANCE NOW

M E N U

XXX: Preventive maintenance parts
(☞ P.5-14[When the warning message is displayed])

REPLACE
XXX

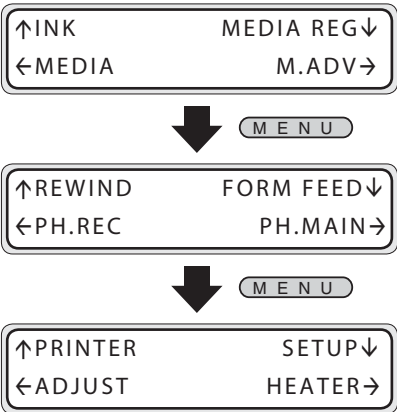
After this, the display returns to the online state.

(8) Offline state (menu mode) display

This display shows that menu operation is enabled in the offline state.

(☞ **P.3-12 [Basic menu operation in offline mode]**)

- ↑, →, ↓, and ← denote the access key to each menu.
- When the **OK** key is pressed in the menu mode display, the display changes to PH.REC MENU.



(9) Shutdown state display

This display shows that the shutdown process of the printer is in progress.



Online operation

Operation panel keys enabled in online mode.

Condition/ mode name		Online state			Explanation
		Idle mode	Printing mode	Pause mode	
Panel key		Go to offline state	After one scan, stop printing and go to pause mode	Cancel print pause mode and go to printing mode	(1)
		Disabled	Disabled	Stop printing and return to idle mode	(6)
		Display print information	Display print information	Display print information	(4)
		Go to offline cleaning	Disabled	Go to cleaning execution mode	(2)
		Feed media backward with  key or forward with  key	Go to media advance correction value operation	Disabled	(3)
		Go to shutdown mode and power off	Go to shutdown mode and power off	Go to shutdown mode and power off	(7)

(1) Transition to the print pause mode

The printer stops printing.







The ONLINE LED blinks.

(2) Cleaning during printing

The cleaning operation is performed during online printing using the following procedure.

PRINTING
ROLL:104 / PAPER



ONLINE

PRINTER PAUSED
ROLL:104 / PAPER

The **ONLINE LED** blinks.

- 1 Press the **OK** key in the pause mode.

PH RECOVERY
>NORMAL

- 2 Select "NORMAL ALL" and "STRONG ALL" with the **▲** and **▼** keys, and press the **OK** key.

#PH RECOVERY
* NORMAL

- 3 Check the waste ink bottle and press the **OK** key.

#PH RECOVERY
*BOTTLE OK?

- 4 Press the **OK** key. When the **CANCEL** key is pressed, the printer returns to the pause mode.

#PH RECOVERY
* CLEANING XXX

XXX: Counted down every 10 seconds.

- 5 After the cleaning is completed, the printer returns to the first state of the pause mode.

PRINTER PAUSED
ROLL:104 / PAPER

(3) Changing media advance correction value during online printing

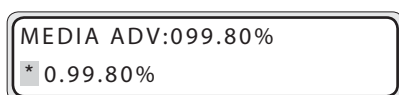
During online printing, the media advance correction value can be changed in the following procedure.

- 1 Press the  or  key while "PRINTING" is displayed.



The printer starts receiving data.
The Data LED blinks.

- 2 The media advance correction value that is currently active is displayed.
Change the value with the  or  key.



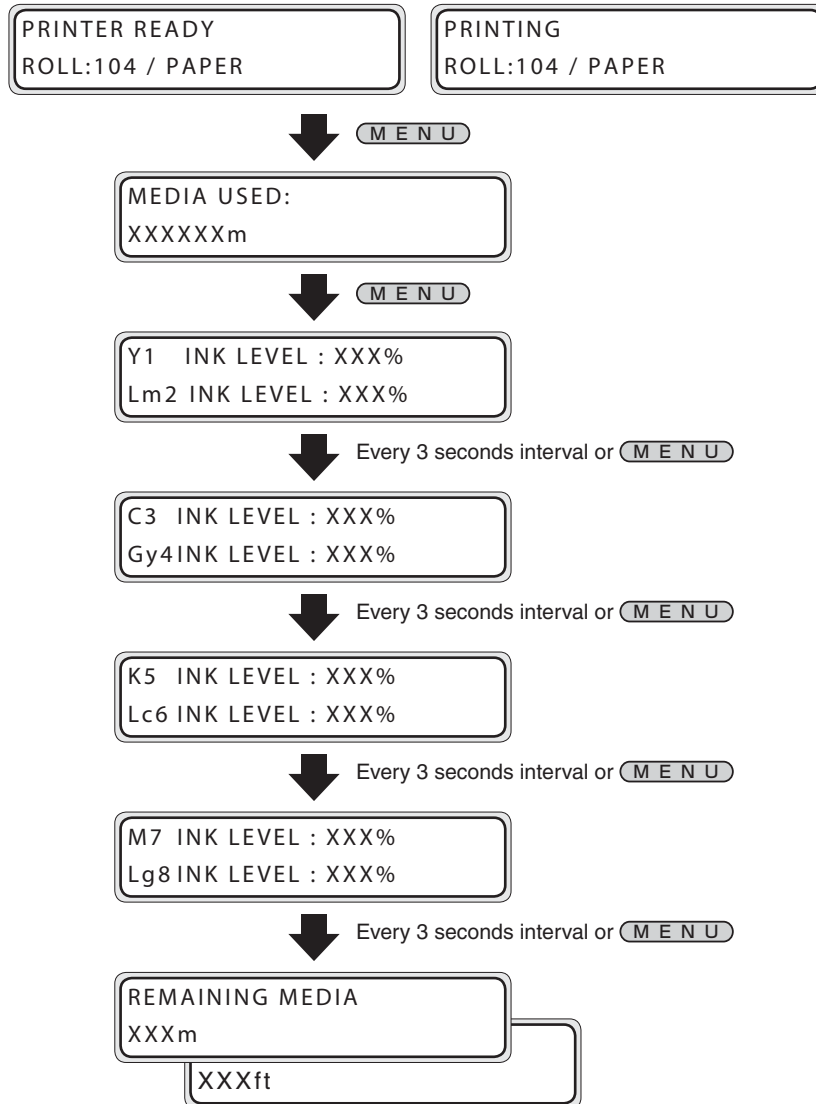
Settable range: 97.00% to 106.00%

The value at the start of printing is displayed at the right of the first line on the LCD and remains unchanged until printing is finished. However, if cleaning is performed during cleaning mode 2, the value changed halfway is displayed after cleaning.

- The value is incremented or decremented by 0.01% with the  or  key.
- When the value is changed, it is reflected in printing immediately.
- The changed value is registered and retained.
- If there is no key operation for three seconds, the display returns to the previous state.

(4) Online state (print information mode) display

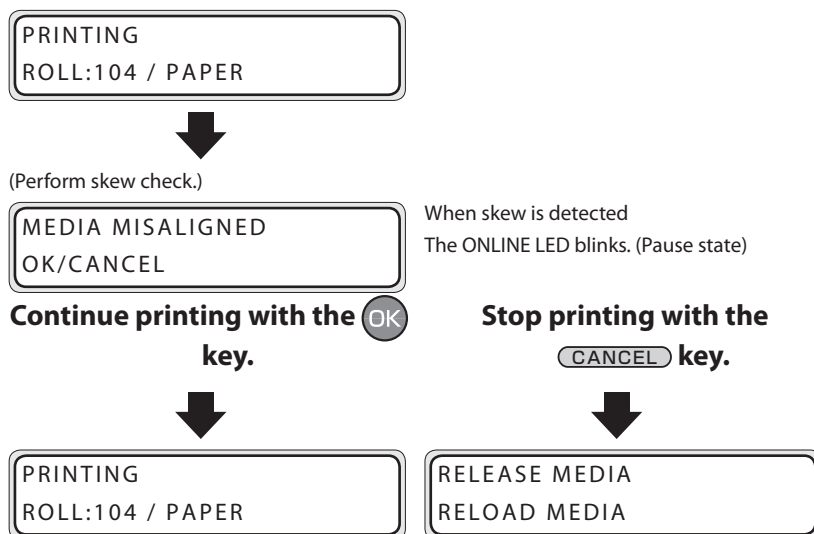
When the **M E N U** key is pressed during the idle mode, online printing or print pause mode, media traveling distance and remaining ink are displayed.



After that, the printer returns to the online state.

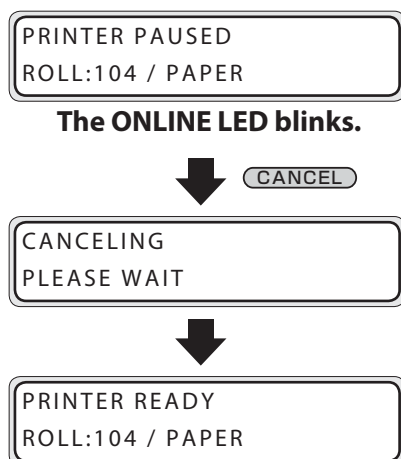
(5) Checking skew during printing

The printer checks media skew at every 3m printing. If the printer detects a skew exceeding the specified level, the printer enters the print pause mode and displays the screen to select continuing or stopping printing.



(6) Cancelling printing

To cancel printing, press the **CANCEL** key in the pause mode.



(7) Shutdown

When the power ON/OFF switch is pressed during the idle mode, online printing or print pause mode, the printer performs the shutdown processing.



There are following two shutdown methods.

1 To turn off the printer without fillcap operation

The printer is turned off without fillcap operation by pressing the power switch for 2 to 3 seconds while pressing the **CANCEL** key. Use this shutdown method for temporary power-off to recover from an error or host communication error.

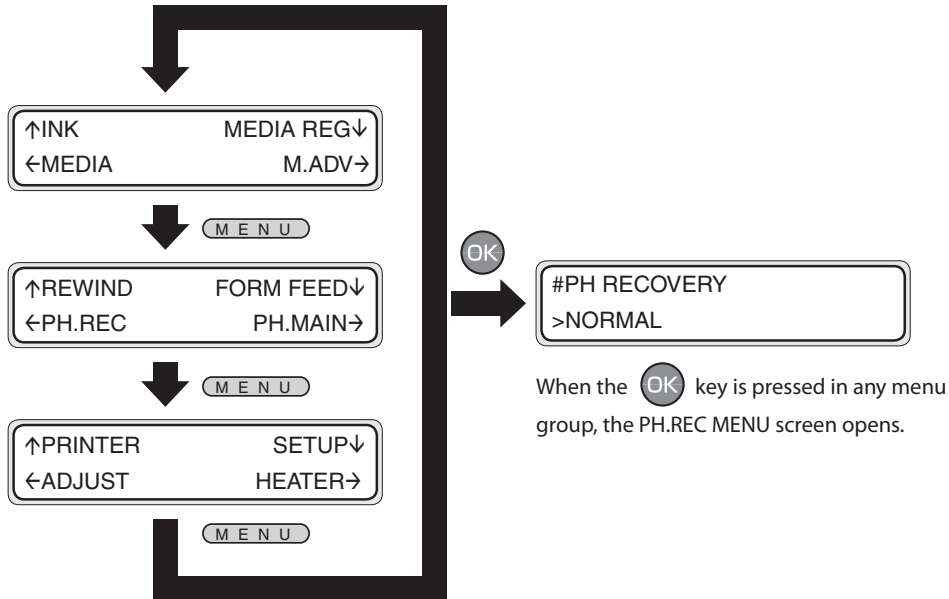
2 To turn off the printer with fillcap operation

The printer is turned off after fillcap operation by pressing the power switch on the operation panel for 2 to 3 seconds.

For details, refer to **[Section 2 Power ON/OFF procedure]**.

Basic menu operation in offline mode

When the **ONLINE** key is pressed in idle online mode, the printer enters offline mode and the menu group is displayed on the LCD allowing menu operation.



Note

- When the **ONLINE** key is pressed even if an error is being displayed, the printer enters offline mode. However, the printer may not become offline depending on error type or while an error is being processed. In this case, rectify the error and then set the printer to the offline state.

Menu layer structure

The menu has the following layer structure.

<Top menu (Menu group)>

This is the menu group displayed on the first layer.
Some first layers include several subsequent menus.

<Second layer menu>

This is the menu group under the top menu (menu group).

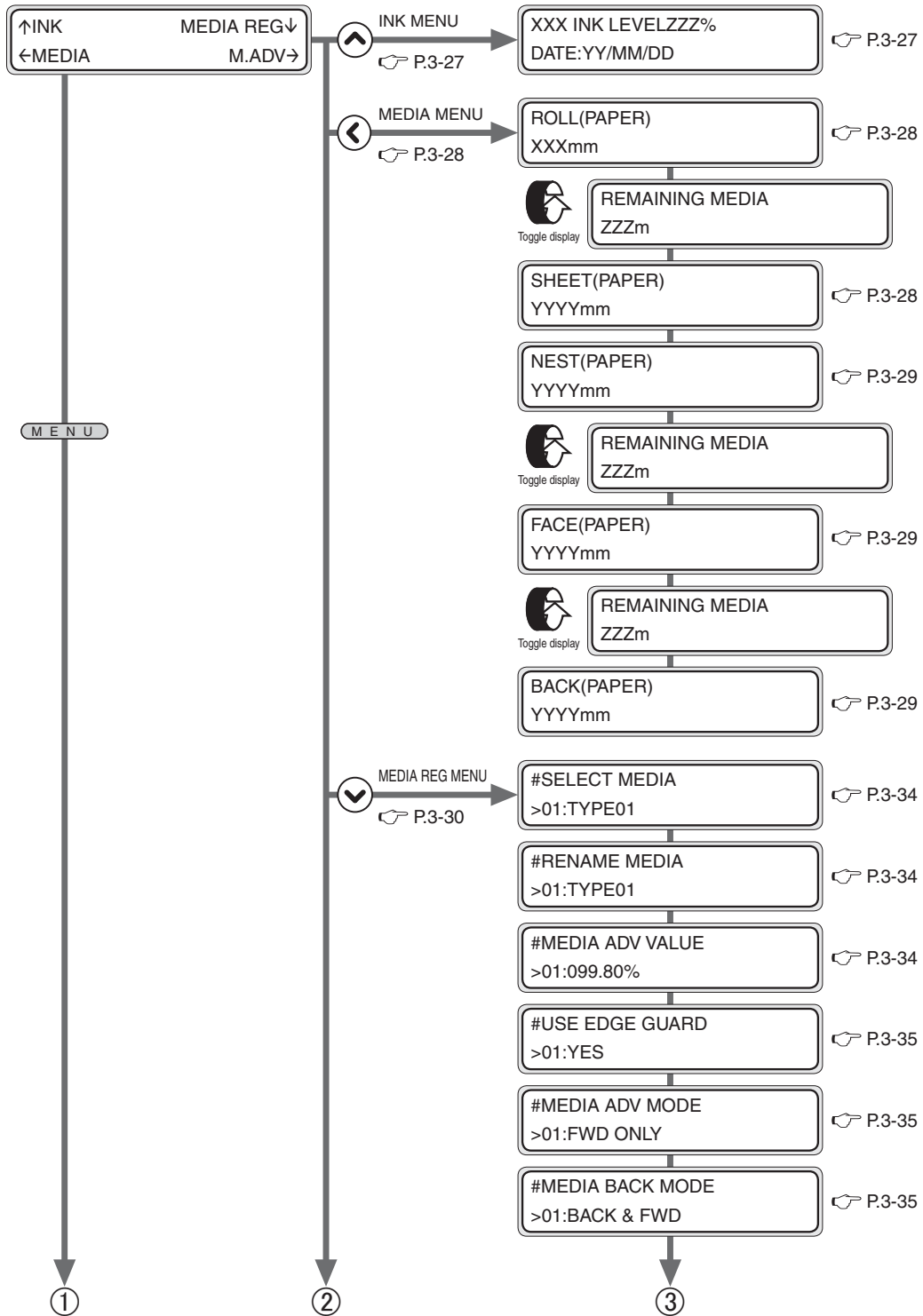
<Third layer menu>

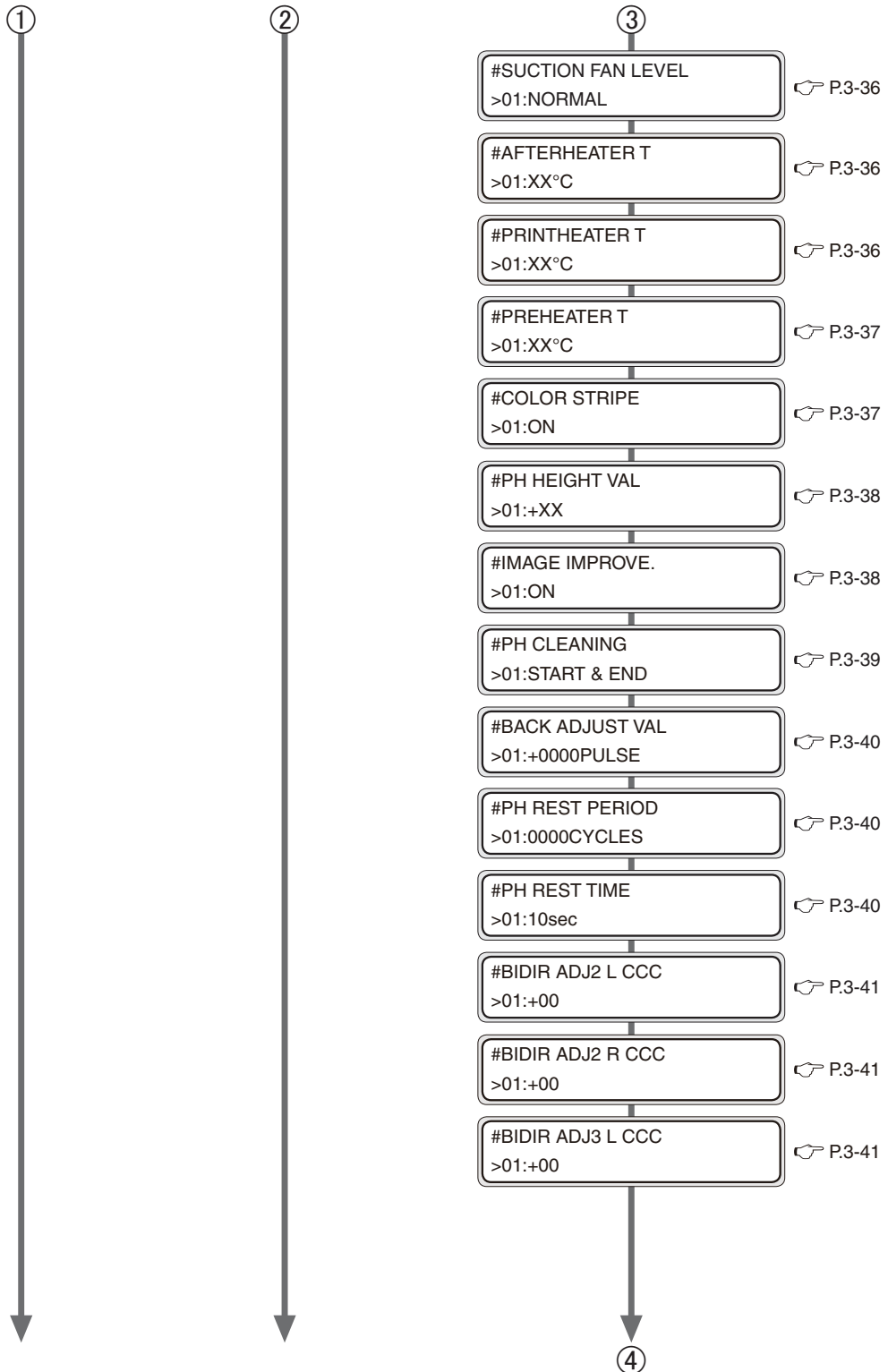
This is the menu group under the second layer.
If there is no third layer menu, parameters are displayed.

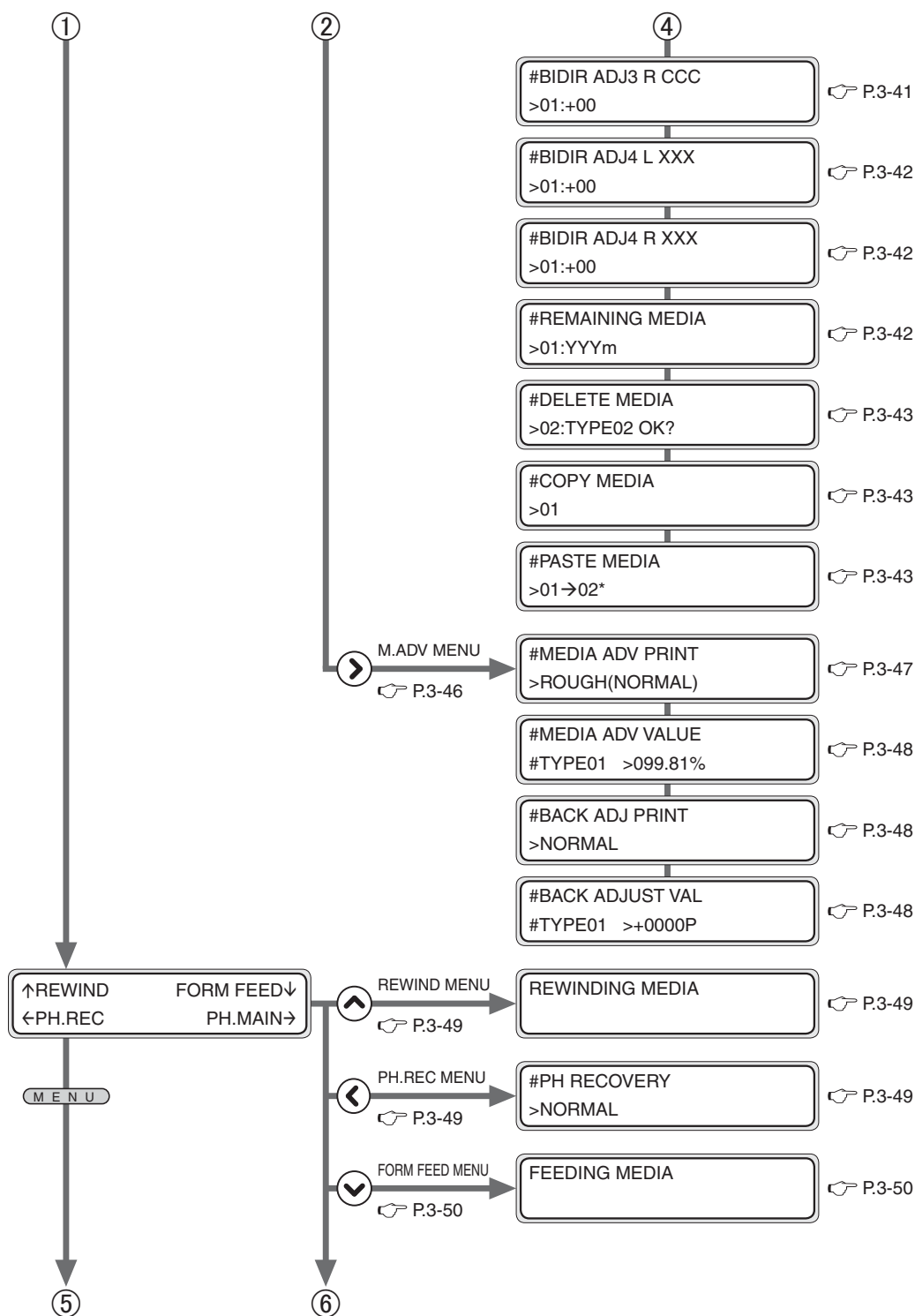
<Parameter>

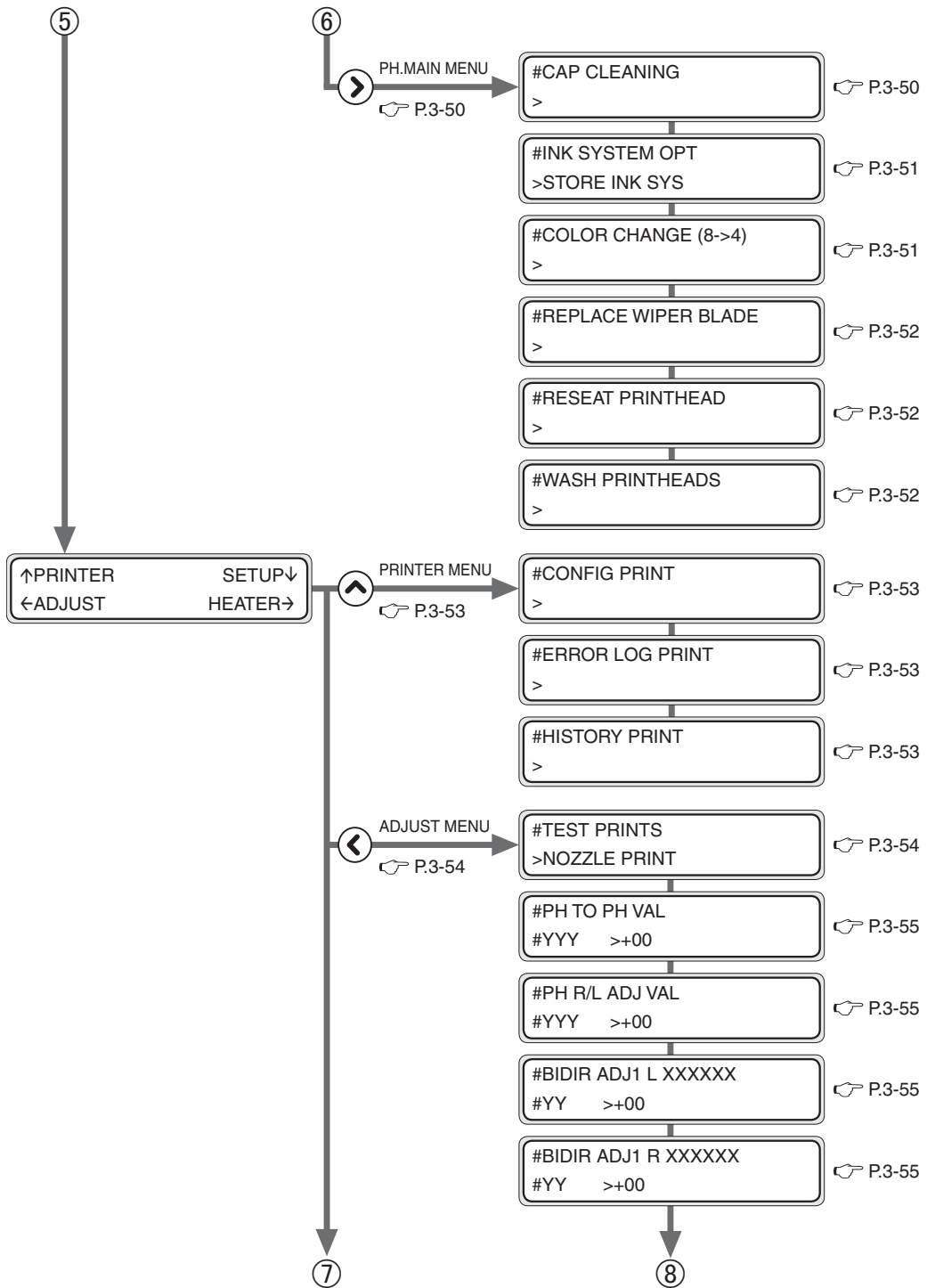
Used to select an item of the selected menu and to enter values.
There are such methods as choice input, numeric input, character input and execution.

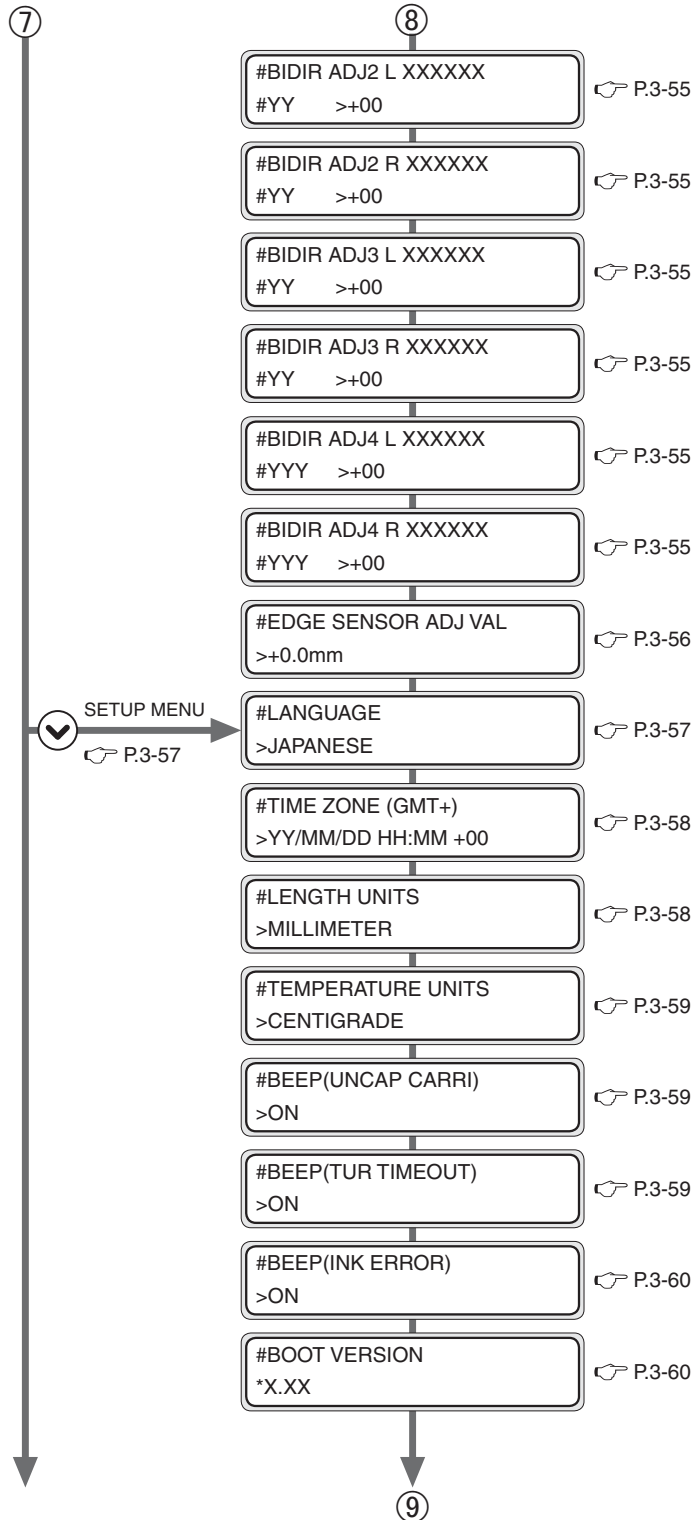
Menu tree

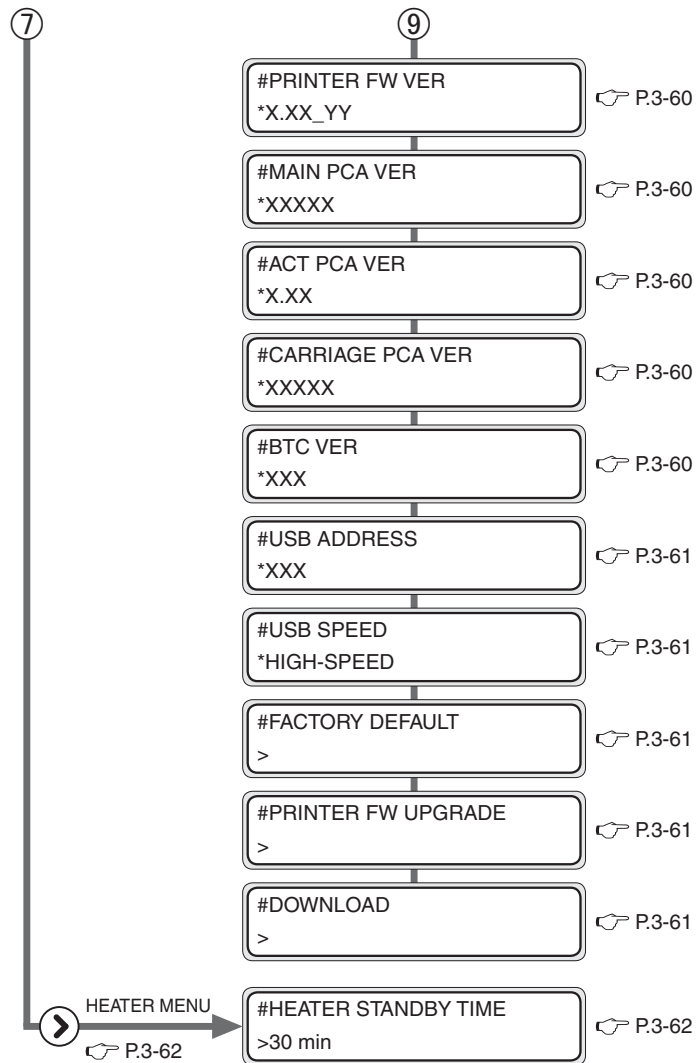










**Note**

- The parameter display unit in each menu is displayed in the unit set in the SETUP MENU.
- Length: [LENGTH UNIT] (meter system/inch system) in the SETUP MENU
- Temperature: [TEMP UNIT] (Centigrade/Fahrenheit) in the SETUP MENU

Basic operation procedure and keys used

- (1) Set the printer to the state that allows menu operation.
 - Menu operation is enabled in the offline state.
 - The menu group screen is displayed when the printer becomes offline.
- (2) Select a menu group.
 - , , ,  keys : Directly select a menu group.
 -  key : Switches the menu group display screen.
- (3) Select a menu.
 - ,  keys : Switch menus in the same layer.
 -  key : Returns the display to the menu group selection state.
 -  key : Fixes the selected menu and allows subordinate menus or parameters to be changed.
- (4) Set or change parameters.
 - ,  keys : Switch parameters and increment/decrement a value for numerical input.
 - ,  keys : Select the digit when entering a value.
- (5) Fix or cancel parameter setting.
 -  key : Fixes the parameter.
 -  key : Cancels the entered parameter and returns the display to the menu selection state.
- (6) Finish the setting.

Press the  key to return to the online state.

Procedure for selection input, numeric input, execution, and character input

■ When parameter is the selection input method

The operation procedure is described with [SUCTION FUN LEVEL] in MEDIA REG MENU.

- 1** Select a menu group with the , , , or  key.

Select MEDIA REG MENU with the

 key.



- 2** Select the lower layer menu of MEDIA REG MENU with the , or  key.

Here, select [SUCTION FUN LEVEL].

The printer can return to the state of step **1** with the  key.



- 3** Press the  key to change the parameter.

- 4** Select the parameter for the menu with the , or  key.

Here, select [LOW].

- 5** Press the  key. Then the parameter is changed and the printer returns to the state of step **2**.



■ When parameter is the numeric input method

The operation procedure is described with [MEDIA ADV VALUE] in M.ADV MENU.

- 1** Select a menu group with the , ,  or  key.

↑INK	MEDIA REG↓
←MEDIA	M.ADV→

Select M.ADV MENU with the  key.

- 2** Select the lower layer menu of M.ADV MENU with the  or  key.

MEDIA ADV VALUE
#TYPE01 >100.00%

XXXXXX: Media name

Here, select [MEDIA ADV VALUE].

The printer can return to the state of step **1** with the  key.

- 3** Press the  key to change the parameter.

#MEDIA ADV VALUE
* 100.00%

- 4** Move the cursor to the digit to be corrected with the  or  key.

#MEDIA ADV VALUE
* 100.00%

- 5** Correct the value with the  or  key.

#MEDIA ADV VALUE
* 100.10%

- 6** Press the  key. Then the parameter is changed and the printer returns to the state of step **2**.

MEDIA ADV VALUE
* 100.10%

■ When parameter is the execution method

Case 1: To execute printing

The operation procedure is described with [CONFIG PRINT] in PRINTER MENU.

- 1** Select a menu group with the , ,  or  key.

Select PRINTER MENU with the  key.



- 2** Select the lower layer menu of PRINTER MENU with the  or  key.

Here, select [CONFIG PRINT].

The printer can return to the state of step **1** with the  key.



- 3** Press the  key.



- 4** Press the  key to execute printing.

To return to the state of step **2** without executing, press the  key.



- 5** After the menu print is completed, the printer returns to the state of step **2**.

Case 2: In case of display only

The operation procedure is described with the BOOT VERSION menu in SETUP MENU.

- 1** Select a menu group with the , ,  or  key.

Select SETUP MENU with the  key.



- 2** Select the lower layer menu of SETUP MENU with the  or  key.

When [BOOT VERSION] is selected, the content is displayed.



*X: BOOT version

- 3** Another lower layer menu in SETUP MENU can be selected with the  or  key.

The printer can return to the state of step **1** with the  key.



■ When parameter is the character input method

The operation procedure is described with the RENAME MEDIA menu in MEDIA REG MENU.

- 1** Select a menu group with the , ,  or  key.

↑ INK	MEDIA REG ↓
← MEDIA	M.ADV →

Select MEDIA REG MENU with the  key.

- 2** Select the lower layer menu of MEDIA REG MENU with the  or  key.

Here, select [RENAME MEDIA].

RENAME MEDIA
>01: PAPER

- 3** Press the  key to change the parameter.

SELECT MEDIA
>01: PAPER

- 4** Correct the character code group with the  +  keys or  +  keys. Correct the character with the  or  key.

(Refer to  P3-26 <Character Selection Table>)

SELECT MEDIA
>01: CAPER

- 5** Move the cursor to the digit to be corrected with the  or  key, and correct the character.

SELECT MEDIA
>01: COATED

- 6** Press the  key to fix the setting.

SELECT MEDIA
>01: COATED

<Character Selection Table>

Character code group		Character ⬆ key ↔ ⬇ key
Backward (MENU) + ⬇ ↕ Forward (MENU) + ⬆	Symbols	space, !, ", #, \$, %, &, ', (,), *, +, -, ., /, :, ;, <, =, >, ?, @, [,], ^, _ ` ' {, , }
	Numbers	0 to 9
	Upper-case alphabets	A to Z
	Lower-case alphabets	a to z
	Katakana : ア line	ア, イ, ウ, エ, オ
	Katakana : カ line	カ, キ, ク, ケ, コ
	Katakana : サ line	サ, シ, ス, セ, ソ
	Katakana : タ line	タ, チ, ツ, テ, ト
	Katakana : ナ line	ナ, ニ, ヌ, ネ, ノ
	Katakana : ハ line	ハ, ヒ, フ, ヘ, ホ
	Katakana : マ line	マ, ミ, ム, メ, モ
	Katakana : ヤ line	ヤ, ユ, ヨ
	Katakana : ラ line	ラ, リ, ル, レ, ロ
	Katakana : ワ line	ワ, ヲ, ヱ, ヲ, ー
	Small letter Katakana	ア, イ, ウ, エ, オ, ヤ, ユ, ヨ, ツ

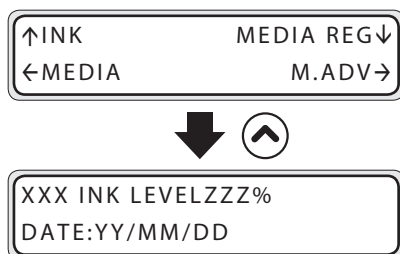
Note

- Katakana characters can be input only when JAPANESE is selected for a language in SETUP MENU [LANGUAGE] .

Explanation of each menu operation

INK MENU

This menu displays ink information. When the  key is pressed, the ink information of each color is displayed at intervals of 3 seconds.



XXX: Ink color/location
(Y/ Lm/C/ Gy/K/Lc/M/Lg)
ZZZ: Remaining ink
YY: Year, MM: Month DD: Day

Ink colors are displayed in the order of Y1 → Lm2 → C3 → Gy4 → K5 → Lc6 → M7 → Lg8.

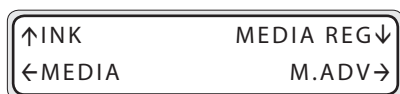
- (1) INK LEVEL shows remaining ink. DATE shows the manufactured date of ink cartridge.
- (2) By pressing the **M E N U** key, the next color can be displayed immediately in less than 3 seconds.
- (3) When the **CANCEL** or  key is pressed, the display returns to the offline state (menu mode).
- (4) To move to the online state (idle mode) display, press the **ONLINE** key.

Note

- When remaining ink is lacking, a message “XXX INK LEVEL:LOW” appears.

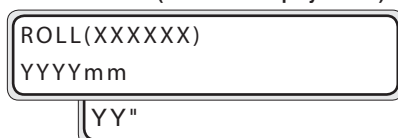
MEDIA MENU

This menu shows media information. When the  key is pressed, the following media information is displayed.



<Roll media>

(In case of display in mm)



XXXXXX: Media name
YYYY: Media width

(In case of display in inch)



The display is switched at intervals of 3 seconds.

(In case of display in mm)

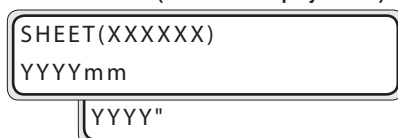


ZZZ: Remaining media

(In case of display in inch)

<Cut-sheet media>

(In case of display in mm)



XXXXXX: Media name
YYYY: Media width

(In case of display in inch)

[SHEET] does not display the remaining media.

<Double-sided printing>

FACE(XXXXXX)
YYYYmm

X: Media type
Y: Media size

BACK(XXXXXX)
YYYYmm

X: Media type
Y: Media size

- (1) When the **CANCEL** and  keys are pressed, the display stops scrolling and returns to the top menu in the offline state.
- (2) When the **ONLINE** key is pressed, the display stops scrolling and goes to the online state.
- (3) While the media menu is displayed, the media feed switch and the take-up reel switch of both roll feed unit and take-up reel unit are enabled even when the media is pressed by the pressure control knob.

<Display at Nest function ON>

(In case of display in mm)

NEST(XXXXXX)
YYYYmm
YY"

XXXXXX: Media name
YYYY: Media width

(In case of display in inch)



The display is switched at intervals of 3 seconds.

(In case of display in mm)

REMAINING MEDIA
ZZZm

ZZZ: Remaining media

ZZZZft

(In case of display in inch)

- (1) REMAINING MEDIA shows the amount of remaining media. When "***" is entered for the value of remaining media, "***" is displayed.
- (2) When the **CANCEL** and  keys are pressed, the display returns to the offline state (menu mode).
- (3) When the **ONLINE** key is pressed, the display goes to the online state (idle mode).

MEDIA REG MENU

This menu sets parameters for printing. Press the  key to set parameters.

↑INK

←MEDIA

MEDIA REG↓

M.ADV→



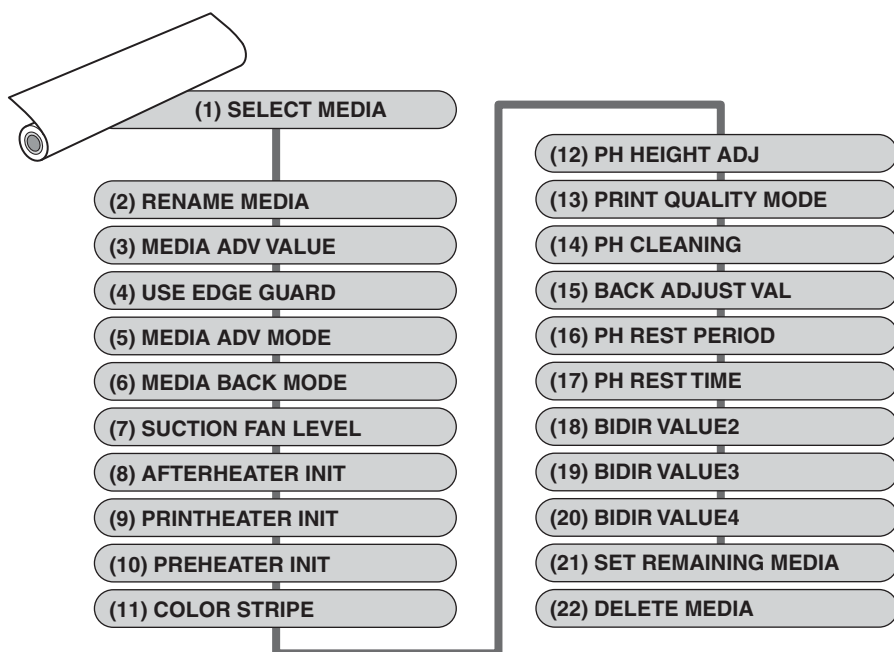
#SELECT MEDIA

>XX:YYYYYY

XX: Media number
YY: Media name



HINT – The following 20 pieces of media information in MEDIA REG MENU can be registered.

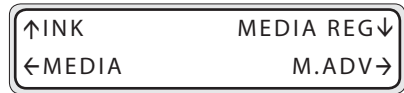


The function to copy the parameters of registered media to other media is also provided.

( P.3-43 [(23) COPY MEDIA], P.3-43 [(24) PASTE MEDIA])

■ How to select the media

- 1** Select MEDIA REG MENU with the  key.



- 2** Select [SELECT MEDIA] with the  or  key.



When the media is already registered, [*] mark is displayed.

- 3** Press the  key to change the parameter.



- 4** Select the media number you want to register with the  or  key.



- 5** Press the  key. Then the media number is fixed and the printer returns to the state of step 2.



■ Preset media initial values

Up to 20 types (media No. 01 to 20) of media can be registered. Registered media can also be deleted or changed. However, media No. 01 (PAPER) and the media that is currently set in the printer cannot be deleted. The initial values are shown below.

Setting \ Media No	01	02	03	04	05
RENAME MEDIA	PAPER	Glossy	Matte	Banner	BLT_B
MEDIA ADV VALUE	100.00%	100.00%	100.00%	100.00%	100.00%
USE EDGE GUARD	Use	Use	Use	Use	Use
MEDIA ADV MODE	Sequence 1	Sequence 1	Sequence 1	Sequence 1	Sequence 1
SUCTION FAN LEVEL	Medium	Medium	Medium	Medium	Medium
AFTERHEATER INIT	Not set	45°C	45°C	45°C	45°C
PRINTEATER INIT	Not set	40°C	40°C	40°C	40°C
PREHEATER INIT	Not set	45°C	45°C	45°C	45°C
COLOR STRIPE	Provided	Provided	Provided	Provided	Provided
BIDIR VALUE1	00	00	00	00	00
BIDIR VALUE2	00	00	00	00	00
BIDIR VALUE3	00	00	00	00	00
BIDIR VALUE4	00	00	00	00	00
PH HEIGHT ADJ	00	00	00	00	00
PRINT QUALITY MODE	ON	ON	ON	ON	ON
PH CLEANING	Mode 1	Mode 1	Mode 1	Mode 1	Mode 1
BACK ADJUST VAL	0	0	0	0	0
PH REST PERIOD	0 (not provided)	0 (not provided)	0 (not provided)	0 (not provided)	0 (not provided)
PH REST TIME	1 second	1 second	1 second	1 second	1 second

■ How to set parameters

The parameter setting procedure is described using an example of entering MEDIA ADVANCE VALUE (☞P.3-34) in media number [02].

- 1 In the MEDIA REG MENU, display [#MEDIA ADV VALUE] with the  or  key.

#MEDIA ADV VALUE
>02:100.00%

- 2 Press the  key to change the parameter, and correct the parameter.

#MEDIA ADV VALUE
*02:099.80%

Note

- Print the advance adjustment pattern and determine the MEDIA ADVANCE VALUE. (☞P.3-47)

- 3 Press the  key. Then the message is displayed.

#MEDIA ADV VALUE
*02:OK?

(This message is displayed only when a media advance value is newly registered.)

- 4 Newly register the media number 02 with the  key. A " * " mark (indicating registered media) appears at the end of the LCD screen, and the printer returns to the state of step 1.

#MEDIA ADV VALUE
*02:099.80% *

When the media is already registered, a " * " mark is displayed.

To cancel the registration, press the  key. Then the new registration stops and the printer returns to the state of step 1.

(1) SELECT MEDIA

Select the media number of media to be registered or parameter-corrected. Twenty (20) media numbers from [01] to [20] can be selected.

```
#SELECT MEDIA
>XX:YYYYYY
```

XX: Selected media number

YYYYYY: Media name



HINT

– When the printer enters MEDIA REG MENU, the currently set media number is displayed first.

When no media is set, media number [01] is displayed.

<Parameter (choice input)>

01 to 20

(2) RENAME MEDIA

Name (register) the media number selected in [SELECT MEDIA]. Six (6) digits of character (or code) can be entered for the media name. For character string of 6 digits, codes, alphanumerics and katakana characters can be used.

```
#RENAME MEDIA
>XX:YYYYYY
```

XX: Selected media number

YYYYYY: Media name

<Parameter (Character input)>

6-digit character input (codes, alphanumerics, katakana characters, etc.)  P.3-21

(3) MEDIA ADV VALUE

Set MEDIA ADVANCE VALUE. Set the advance value so that the banding (horizontal stripes of path splicing) is not visible.

```
#MEDIA ADV VALUE
>XX:YYY.YY%
```

XX: Selected media number

YYYYYY: Media name

<Parameter (numeric input)>

097.00 to 106.00%

Note

- For MEDIA ADVANCE VALUE setting, refer to [Setting media advance correction values]. ( P.2-38)

(4) EDGE GUARD

Select whether to use the media edge guard or not. With this setting, the right and left margins of media vary.

#USE EDGE GUARD
>XX:YES

XX: Selected media number

<Parameter (choice input)>

YES	Set when the edge guard is used.
NO	Set when the edge guard is not used.



HINT

– When the edge guard is used, the right and left margins of print are 10 mm. When it is not used, the right and left margins are 5 mm.

(5) MEDIA ADV MODE

Select a media advance mode.

#MEDIA ADV MODE
>XX:FWD ONLY

XX: Selected media number

<Parameter (choice input)>

FWD ONLY	Media is fed in the normal media advance sequence.
BACK & FWD1	Media is fed in the media adhesion prevention sequence. At the beginning of printing, media peeling is performed during feeding when the pause mode is cancelled.
BACK & FWD2	Media is fed in the media adhesion prevention sequence. Media peeling is performed during feeding at each scan.

(6) MEDIA BACK MODE

Select a media back mode.

#MEDIA BACK MODE
>XX:BACK & FWD

XX: Selected media number

<Parameter (choice input)>

BACK & FWD	Media is rewound after the print. Select this mode in most cases.
FWD ONLY	Media is not rewound after the print. When the media is flexible such as mesh media, the rewound media may cause the media wrinkle. To prevent such a wrinkle, select this mode. In this mode, a blank space is secured between the prints. To eliminate the space, print the image files as one continuous image data, for example with the tiling function of SoftRIP.

(7) SUCTION FAN LEVEL

Select the force (air volume of fan) to suck the media to the platen.

#SUCTION FAN LEVEL
>XX:HIGH

XX: Selected media number

<Parameter (choice input)>

HIGH	Media is sucked with the largest air volume.
NORMAL	Media is sucked with medium air volume.
LOW	Media is sucked with small air volume.
OFF	Stops the suction fan.

Note

- Select [LOW] for less elastic cloth media that easily generates wrinkles.

(8) AFTERHEATER INIT

Set the afterheater temperature. However, when (When temperature unit is Centigrade)
"x.x" is set, the afterheater does not work.

#AFTERHEATER T
>01:30°C

(When temperature unit is Fahrenheit)

#AFTERHEATER T
>01:086°F

<Parameter (numeric input)>

15°C to 70°C	Centigrade temperature setting range
59°F to 158°F	Fahrenheit temperature setting range

(9) PRINTHEATER INIT

Set the print heater temperature. However, when (When temperature unit is Centigrade)
"x.x" is set, the print heater does not work.

#PRINTHEATER T
>01:40°C

(When temperature unit is Fahrenheit)

#PRINTHEATER T
>01:104°F

<Parameter (numeric input)>

15°C to 55°C	Centigrade temperature setting range
59°F to 131°F	Fahrenheit temperature setting range

(10) PREHEATER INIT

Set the preheater temperature. However, when "***" (When temperature unit is Centigrade) is set, the preheater does not work.

#PREHEATER T
>01:40°C

(When temperature unit is Fahrenheit)

#PREHEATER T
>01:104°F

<Parameter (numeric input)>

15°C to 55°C	Centigrade temperature setting range
59°F to 131°F	Fahrenheit temperature setting range



- Switching the display between Centigrade temperature and Fahrenheit temperature is performed with (4) Temperature Unit in SETUP MENU. (P.3-59)

Centigrade/Fahrenheit conversion formula

$$F=(9/5)C+32$$

$$C=(5/9)(F-32)$$

(11) COLOR STRIPE

Select whether to print color stripes or not.

#COLOR STRIPE
>XX:ON

XX: Selected media number

<Parameter (choice input)>

ON	Color stripes are added.
OFF	No color stripe is added.



- If no color stripe is added, nozzle-out may occur. It is recommended that media be printed with color stripes.
- Regardless of this setting, color stripes are added to various adjustment patterns in the offline state.
- When COLOR STRIPE is set to ON, the print area is reduced by about 20 mm.

(12)PH HEIGHT ADJ

Adjust the print head height.

PH HEIGHT VAL
>XX:+0.0

XX: Selected media number

<Parameter (numeric input)>
-5 to +10 (Unit: 0.1 mm)

(13)PRINT QUALITY MODE

Select whether to automatically correct the print quality or not.

#IMAGE IMPROVE.
>XX:ON

XX: Selected media number

<Parameter (choice input)>
ON Automatic correction is performed. (Usually, set to ON.)
OFF Automatic correction is not performed.

- Note**
- If a part (characters or halftone) of an image is disturbed due to excessive automatic correction, set this mode to OFF and be sure to adjust the media advance correction value.

(14) PH CLEANING

To keep the print head condition, select a cleaning mode which is automatically performed by the printer.

#PH CLEANING
>XX:START & END

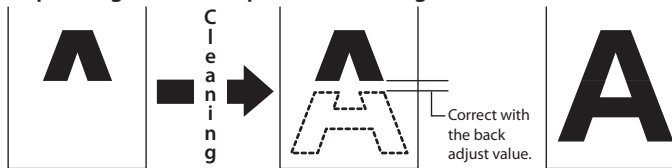
XX: Selected media number

<Parameter (numeric input)>

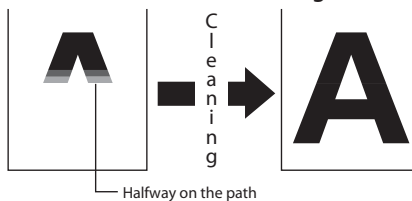
START & END	Cleaning is performed automatically at the beginning or at the end of print, judging from the past print history.
DURING PRINT	Cleaning is performed automatically at predetermined intervals during printing.
DURING PRINT2	Cleaning is performed automatically at predetermined intervals during printing.

Note

- In the case of **DURING PRINT**, since cleaning is performed during printing, splicing appears on the printout. (However, the image before and after the splice is once completed and then cleaning is performed.) The splicing can be corrected by  P.3-40 [(15) BACK ADJUST VAL]. Select **DURING PRINT** when using PVC or other media that are susceptible to the effect of heater temperature. Depending on media, splices are not aligned. In this case, use **MODE1** or **MODE3**.



- In the case of **DURING PRINT2**, cleaning is performed during printing, but the splicing comes halfway of the print path. Select **DURING PRINT2** when using banner or other media that are resistant to heater temperature. Splices are matched better than **DURING PRINT**, but colors before and after the splice may differ. Select the head cleaning mode suitable for media characteristics.



(15)BACK ADJUST VAL

Set the back adjust value of media. This value is used to correct the splice of two images divided by the auto-cleaning (PH CLEANING [DURING PRINT]) performed during printing.

#BACK ADJUST VAL
>XX:+0000PULSE

XX: Selected media number

<Parameter (numeric input)>

±2000 pulses (Unit: Approx. 3.5 μm)

(16)PH REST PERIOD

Scanning of the print head rests at every certain print length during printing. Set this time period to prevent nozzle-out of the print head. Normally, set it to [0000CYCLES].

#PH REST PERIOD
>XX:0000CYCLES

XX: Selected media number



HINT – Set the number of scans for print length in [(16) PH REST PERIOD].

<Parameter (numeric input)>

0000 to 9999 Setting [0] does not perform the scan rest.

(17)PH REST TIME

Corresponding to [(16) PH REST PERIOD], set the scan rest time. When [0] is set for [(16) PH REST PERIOD], this parameter is ignored. Set this rest time to prevent nozzle-out of the print head. Set it to [10 sec] as a rule of thumb.

#PH REST TIME
>XX:10sec

XX: Selected media number

<Parameter (numeric input)>

1 to 99 seconds



HINT – Set the rest time in [(17) PH REST TIME].

(18) BIDIR VALUE2

The reciprocating correction adjusts the shift between two ways of bidirectional print.

With this menu, correction values for print modes (NORMAL1, NORMAL2, QUALITY and DENSITY2) are set.

#BIDIR ADJ2 L CCC
 >XX:+00

CCC: Ink color/location

Display order:

8-color mode: Y1 → Lm2 → C3 → Gy4 → K5 → Lc6 → M7 → Lg8

4-color mode: Y1 → M2 → C3 → K4 → K5 → C6 → M7 → Y8

<Parameter (numeric input)>

±, -32 to +31

Note

- For how to set the reciprocating correction value, refer to [Setting media advance correction values] (☞P.2-38).

(19) BIDIR VALUE3

The reciprocating correction adjusts the shift between two ways of bidirectional print.

With this menu, correction values for print modes (DRAFT1) are set.

#BIDIR ADJ3 L CCC
 >XX:+00

CCC: Ink color/location

Display order:

8-color mode: Y1 → Lm2 → C3 → Gy4 → K5 → Lc6 → M7 → Lg8

4-color mode: Y1 → M2 → C3 → K4 → K5 → C6 → M7 → Y8

<Parameter (numeric input)>

±, -32 to +31

Note

- For how to set the reciprocating correction value, refer to [Setting media advance correction values] (☞P.2-38).

(20) **BIDIR VALUE4**

The reciprocating correction adjusts the shift between two ways of bidirectional print.
With this menu, correction values for print mode (FINE DRAFT1) are set.

#BIDIR ADJ4 L CCC
>01:+00

CCC: Ink color/location

Display order:
8-color mode: Y1 → Lm2 → C3 → Gy4 → K5 → Lc6 → M7 → Lg8
4-color mode: Y1 → M2 → C3 → K4 → K5 → C6 → M7 → Y8

<Parameter (numeric input)>

±, -32 to +31

- Note**
- For how to set the reciprocating correction value, refer to [Setting media advance correction values] (☞P.2-38).

(21) **SET REMAINING MEDIA**

Set the remaining media. When the remaining media is set beforehand, you can check the remaining media (by subtracting the printed length) in the MEDIA MENU. When [***] is displayed due to invalid entry, the remaining media management is not performed.

#REMAINING MEDIA
>XX:YYYm
>XX:YYYYft

XX: Selected media number
YY: Remaining media

<Parameter (numeric input)>

0 to 999m The input unit of the meter unit system is meter (m).

0 to 3278ft The input unit of the inch unit system is feet (ft).

 **HINT** – The parameter display unit is displayed with the unit set in [LENGTH UNITS] of SETUP MENU.

(22) DELETE MEDIA

Delete the registered media. No. 01 to 20 of registered media can be selected.

The registered media 01 is positioned as reference media and cannot be deleted. Furthermore, the media currently set to the printer cannot also be deleted. When this delete operation is performed, the confirmation guidance (OK?) is displayed. Press the  key.

#DELETE MEDIA
>02:TYPE02 OK?



#DELETE MEDIA
* 02:TYPE02 OK?

(23) COPY MEDIA

Select the media number of copy source. Use this menu to copy the media information (parameters) of the registered media to other media. Designate the copy destination in **[(24) PASTE MEDIA]**.

#COPY MEDIA
>XX

XX: Copy source media number

Note

- When the media number designated as the copy source is deleted, the copy source is automatically set to [01].

<Parameter (choice input)>

01 to 20 Only registered numbers are displayed.

(24) PASTE MEDIA

Select the media number of copy destination.

#PASTE MEDIA
>XX→YY*

XX: Copy source media number

YY: Copy destination media number

<Parameter (choice input)>

01 to 20 A [*] mark is attached to already registered numbers.

■ COPY MEDIA, PASTE MEDIA

Select the copy source and copy destination and copy the media information. The parameters to be copied are setting content of **(2)** to **(21)** in MEDIA REG MENU. To use the function to copy the registered media information, the parameters for **[(23) COPY MEDIA]** and **[(24) PASTE MEDIA]** must be entered. For details, refer to “How to copy parameters” on the next page.

■ How to copy parameters

The following describes the procedure to copy the parameter registered in media No. 13 to media No. 20.

1 Select the copy source.

Select the media number with the  or  key. (Only registered copy source numbers are displayed.)

Fix the media number of copy source with the  key.

If the  key is pressed during execution of a menu, the display returns to the first menu.

COPY MEDIA

> 01



COPY MEDIA

* 01



COPY MEDIA

* 13



COPY MEDIA

> 13

2 Select the copy destination.

The value (13) displayed on the left side is the media number of copy source, and the value on the right side is the media number of copy destination.

Select the media number with the  or  key. (Copy destination numbers 01 to 20 are displayed.) When the copy destination is already registered, a [*] mark is attached to the number.

Fix the media number of copy destination with the  key. If the copy destination is newly registered, no [*] mark is attached to the number. Perform the parameter copy with the  key.

If the  key is pressed during execution of a menu, the display returns to the first menu.

PASTE MEDIA

> 13 → 01 *



PASTE MEDIA

* 13 → 01 *



PASTE MEDIA

* 13 → 20 *



PASTE MEDIA

* 13 → 20 OK?

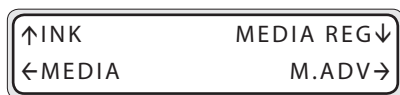


PASTE MEDIA

* 13 → 20

M.ADV MENU

Set parameters for media advance adjustment. To set parameters, press the  key.



(1) MEDIA ADV PRINT

To determine the media advance value, print the media advance correction pattern. There are two types of media advance correction

pattern: [ROUGH] and [DETAIL]. With the [ROUGH] print, find the rough value and then determine the value with the [DETAIL] print. Adjust the media advance value in each print mode. To stop printing, press the **CANCEL** key during printing.

#MEDIA ADV PRINT
 >ROUGH(NORMAL1)

Purpose	Print mode to obtain the media advance correction value	Parameter (choice input)	Explanation for media advance correction pattern
To obtain a rough value	NORMAL1	ROUGH (NORMAL1)	The media advance correction pattern is printed within a range of 99.0 to 101.0% in units of 0.5% (in normal 8-paths).
	QUALITY	ROUGH (QUALITY)	
	DENSITY2		
	NORMAL2	ROUGH (NORMAL2)	
	DRAFT1	ROUGH (DRAFT1)	
	FINE DRAFT	ROUGH (FINE DRAFT)	
To obtain a media advance correction value	NORMAL1	DETAIL (NORMAL1)	The media advance correction pattern is printed within a range of the current setup value $\pm 0.12\%$ in units of 0.06%.
	QUALITY	DETAIL (QUALITY)	
	DENSITY2		
	NORMAL2	DETAIL (NORMAL2)	
	DRAFT1	DETAIL (DRAFT1)	
	FINE DRAFT	DETAIL (FINE DRAFT)	

Note

- To print images in DENSITY2 mode, apply the media advance correction pattern, ROUGH (QUALITY) or DETAIL (QUALITY).

(2) MEDIA ADV VALUE

Adjust the media advance value. Enter a media advance value based on the media advance correction pattern print result.

MEDIA ADV VALUE
#XXXXXX >099.81%
XXXXXX: Media name

<Parameter (numeric input)>	
97.00 to 106.00%	Media advance correction value setting range

(3) BACK ADJUST PRINT

When making the media back adjustment (when PH CLEANING [DURING PRINT] is selected), print the media back correction pattern. Select the parameters to meet the respective print mode.

BACK ADJ PRINT
>NORMAL

<Parameter (choice input)>	
NORMAL1	Selected when adjusting in the NORMAL1 or DENSITY2 print mode.
QUALITY	Selected when adjusting in the QUALITY or DENSITY2 print mode.
DRAFT1	Selected when adjusting in the DRAFT1 print mode.
FINE DRAFT	Selected when adjusting in the FINE DRAFT print mode.
NORMAL2	Selected when adjusting in the NORMAL2 print mode.

(4) BACK ADJUST VAL

Set the back adjust value of the media. Enter a media back value based on the media back correction pattern print result.

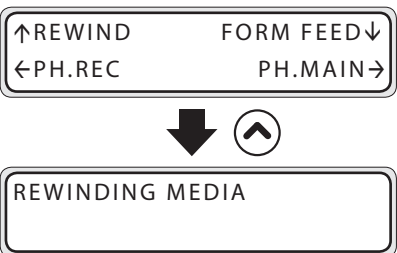
BACK ADJ VAL
#XXXXXX>+0000P
XXXXXX: Media name

<Parameter (numeric input)>	
±2000 pulses (Unit: Approx. 2.5 μm)	

- Note**
- The back adjust value of the media is valid when DURING PRINT is set for PH CLEANING. (☞P.3-39 [(14) PH CLEANING])

REWIND MENU

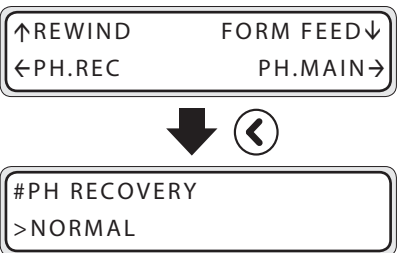
While you keep pressing the  key, the printer rewinds media.



When the  key is released, the media stops and the printer returns to the offline state (menu mode).

PH.REC MENU

This menu is used to clean the print head of the printer. Press the  key to enter PH.REC MENU for the print head.



<Parameter (choice input)>

NORMAL ALL	Performs normal cleaning.
STRONG ALL	Performs strong cleaning.

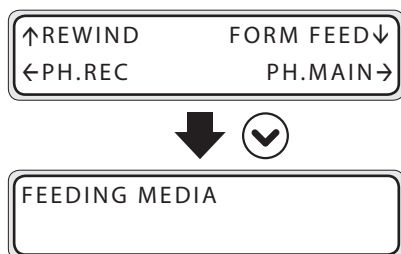
Note

- If ink filling from the ink tray is not yet completed, the ink supply menu is displayed.

For details of the cleaning operation, refer to [P2-95 Print head cleaning].

FORM FEED MENU

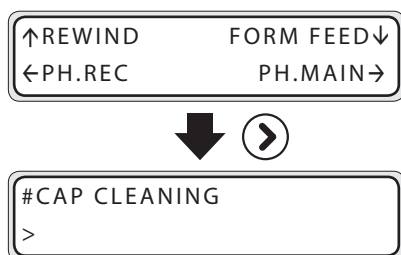
While you keep pressing the  key, the printer feeds media. (When cut-sheet media is used, the printer ejects the media.)



When the  key is released, the media stops and the printer returns to the offline state (menu mode).

PH.MAIN MENU

This menu is used for the maintenance and replacement of the capping unit and the wiper blade, as well as for cleaning the ink flow path. Press the  key to operate PH.MAIN MENU.



(1) CAP CLEANING

The carriage moves to the maintenance area so that the capping unit can be cleaned periodically.

 **P.2-108 [Periodic maintenance]**



```
#CAP CLEANING
>
```

<Parameter (execution method)>

None

(2) INK SYSTEM OPT

Execute the service (cleaning) operation.

#INK SYSTEM OPT
>STORE INK SYS

<Parameter (choice input)>

STORE INK SYS	Used to clean the print head and ink flow path with the cleaning liquid and charge the cleaning liquid so that the printer can be left for a long time period with the wiper cleaning liquid charged.
CLEAN INK SYS	Used to extract the storage liquid and clean the print head and ink flow path with the cleaning liquid to make the printer operable after STORE INK SYS is performed. (After this cleaning, ink must be charged.)
INITIAL CHARGE	Used to charge ink in the printer.
CHARGE(INKPACK)	To be used in order to fill the ink after head wash
CHARGE CAP CL	Used to solve the nozzle out by charging wiper cleaning liquid to the cap, after confirming that the nozzle out was not solved by several head cleanings. The operation to charge the wiper cleaning liquid to the cap is performed manually with the procedure below: (a) Select the operation from the operation panel. (b) Move the carriage. (c) Open the front cover. (d) Manually move the carriage. (e) Add the wiper cleaning liquid to the cap with dropper. (f) Close the front cover. (g) Return the carriage to the original position. (h) Hold the printer for several seconds. (i) Perform the cleaning.
PH CLEANING	To be used when cleaning any ink adhered to the head nozzle surface using a linear jig soaked with cleaning agent.

(3) COLOR CHANGE

Used to change the printer mode from 8-color mode to 4-color mode or from 4-color mode to 8-color mode.

(☞P.2-67 [8-color to 4-color mode change procedure] or P.2-75 [4-color to 8-color mode change procedure])

#COLOR CHANGE (8->4)
>

#COLOR CHANGE (4->8)
>

(4) WIPER BLADE REP

Used to replace the wiper blade.

 **P.2-90 [Replacing the wiper blade]**

#REPLACE WIPER BLADE

>

(5) HEAD CHECK

Used to check the print head.

 **P.2-108 [Periodic maintenance]**

#RESEAT PRINTHEAD

>

(6) WASH PRINTHEADS

To prevent the nozzle from clogging, this function is provided to fill the cap with ink so that the print head (nozzle surface) is soaked in the ink. Leave the printer for 1 to 2 hours and check again.

If nozzle-out is not rectified even after cleaning is repeated, use this function.

#WASH PRINTHEADS

>

<Parameter (execution method)>

None

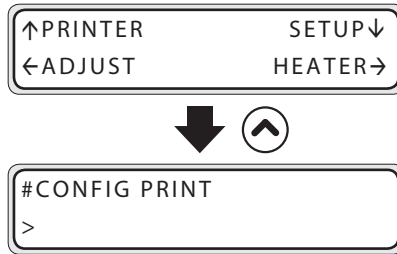
Note

- When printing after the fillcap operation, be sure to perform PH.REC MENU (NORMAL ALL).
- If nozzle-out still occurs even after the printer is left for 24 hours, contact our service depot.

PRINTER MENU

This menu is used to execute functions provided in the printer.

Press the  key to enable the following functions.



(1) Menu print

Used to print the printer information and operation panel setting information.

#CONFIG PRINT
>

<Parameter (execution method)>

None

(2) Error log print

Used to print the error log information saved in the printer.

#ERROR LOG PRINT
>

<Parameter (execution method)>

None

(3) History print

Used to print the ink system cleaning status and the print head replacement log saved in the printer.

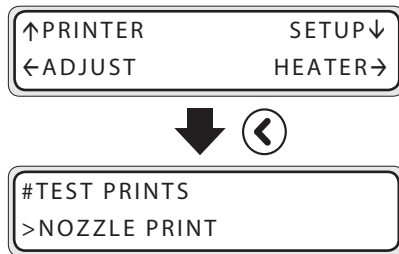
#HISTORY PRINT
>

<Parameter (execution method)>

None

ADJUST MENU

This menu is used to set mechanical adjustment parameters. Press the  key to enable the setting of mechanical adjustment parameters.



(1) Adjustment pattern

Used to print the adjustment pattern that is used for mechanical and electrical adjustments.

To stop printing, press the **CANCEL** key.

#TEST PRINTS
>NOZZLE PRINT

<Parameter (choice input)>

NOZZLE PRINT	Print the nozzle check pattern.
ADJUSTMENT & CHECK	Print the adjustment check pattern.
PH TO PH	Print the head position adjustment pattern.
PH R&L ADJ PRINT	Print the head right and left adjustment pattern.
BIDIR ADJ PRINT2	Print the bidirectional adjustment pattern (for NORMAL1, NORMAL2, QUALITY, and DENSITY).
BIDIR ADJ PRINT3	Print the bidirectional adjustment pattern (for DRAFT1).
BIDIR ADJ PRINT4	Print the bidirectional adjustment pattern (for FINE DRAFT).
EDGE SENSOR ADJ PRINT	Print the edge sensor adjustment pattern.

(2) PH TO PH VAL

Used to adjust the head position (print position in the lateral direction of media) of the main scanning direction of each print head.

Enter the correction value based on the print result of [PH TO PH]. (☞**P.2-41 Adjusting the print head position [ADJUST PH POS]**)

#PH TO PH VAL

#YYY >+00

YYY: Ink color/location

Display order:

Y1 → Lm2 → C3 → Gy4 → K5 → Lc6 → M7 → Lg8

<Parameter (numeric input)>

±, -32 to +31

(3) PH R&L VAL

Used to adjust the right and left nozzle spotting positions of each print head.

Enter the value where the vertical lines of each color align based on the print result of the right and left adjustment pattern. (☞**P.2-43 Adjusting the print head nozzles position [ADJUST PH R/L]**)

#PH R/L ADJ VAL

#YYY >+00

YYY: Ink color/location

Display order:

Y1 → Lm2 → C3 → Gy4 → K5 → Lc6 → M7 → Lg8

<Parameter (numeric input)>

±, -32 to +31

(4) BIDIR ADJ PRINT△

Used to adjust the shuttle position of the set media. Enter the correction value based on the print result of [BIDIR ADJ PRINT1 to 4].

(☞**P.2-46 Adjusting the print head's bidirectional position [BIDIRECTION△]**)

△ shows 1, 2, 3 or 4.

#BIDIR ADJ△ L XXXXXX

#YYY >+00

YYY: Ink color/location

XXXXXX: Media name

△: 1, 2, 3 or 4

Display order:

Y1 → Lm2 → C3 → Gy4 → K5 → Lc6 → M7 → Lg8

<Parameter (numeric input)>

±, -32 to +31

(5) EDGE SENSOR VALUE

Used to adjust for correct position of image to be printed on the media. Enter the correction value based on the print result of [EDGE SENSOR ADJ PRINT]. (☞ **P.2-92 [Correcting the edge sensor position]**)

#EDGE SENSOR ADJ VAL
>+0.0mm

<Parameter (numeric input)>

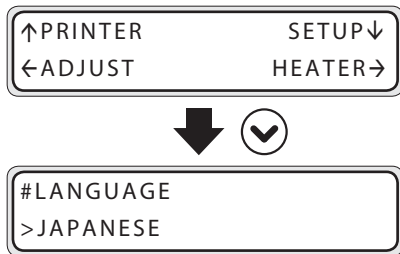
-5.0 to +5.0 mm

Note

- Regardless of the length unit set by [Length Unit] in SETUP MENU, enter a value in millimeter.

SETUP MENU

This menu is used to set and display system parameters. To set system parameters, press the  key.



(1) LANGUAGE

Select the language of messages used for LCD .



<Parameter (choice input)>

JAPANESE	The LCD message is displayed in Japanese.
ENGLISH	The LCD message is displayed in English.
FRENCH	The LCD message is displayed in French.
ITALIAN	The LCD message is displayed in Italian.
GERMAN	The LCD message is displayed in German.
SPANISH	The LCD message is displayed in Spanish.
PORTUGUESE	The LCD message is displayed in Portuguese.

(2) Time Zone

Select a time zone.

#TIME ZONE (GMT+)
>YY/MM/DD HH:MM ZZZ

yy: Year, mm: Month, dd: Day, hh: Hour, mi: Minute
ZZZ: -12 to +12 (25-step choice input) Time zone time

The local time (internal clock) is calculated by adding the time zone time to the GMT (Greenwich Mean Time) and is displayed.

Choice	Description
+12	Sets the time added 12 hours to the GMT as local time.
+11	Sets the time added 11 hours to the GMT as local time.
~	
+01	Sets the time added 1 hour to the GMT as local time.
+00	Sets the GMT as local time.
-01	Sets the time subtracted 1 hour from the GMT as local time.
~	
-11	Sets the time subtracted 11 hours from the GMT as local time.
-12	Sets the time subtracted 12 hours from the GMT as local time.

The local time display is updated each time the time zone time is changed in the entry state (every pressing of the ↑ or ↓ button).

(3) Length Unit

Select a length unit.

#LENGTH UNITS
>MILLIMETER

Choice	Description	Remarks
MILLIMETER	Millimeter system	
INCH	Inch system	

(4) Temperature Unit

Select a temperature unit.

```
#TEMPERATURE UNITS
>CENTIGRADE
```

Choice	Description	Remarks
CENTIGRADE	Centigrade	
FAHRENHEIT	Fahrenheit	

(5) BEEP (CAP OPEN)

Set whether to emit a warning beep in the state below.

```
#BEEP(UNCAP CARRI)
>ON
```

- The print head is dislocated from the cap in the daily maintenance or head height adjustment.
- The print head cannot be capped due to a media jam error during printing.

Choice	Description	Remarks
ON	Emits a warning beep.	
OFF	Does not emit a warning beep.	

This setting is applied to the following states:

- Cap cleaning
- Occurrence of media jam
- Nest function
- Print head check

Note) This setting is provided for a warning beep (at intervals of 1 second) to protect the print head. A beep sounds usually in the case of an error regardless of this setting.

(6) BEEP (TUR TIMEOUT)

Set whether to emit a warning beep when a take-up (TUR) timeout has occurred.

```
#BEEP(TUR TIMEOUT)
>ON
```

Choice	Description	Remarks
ON	Emits a warning beep.	
OFF	Does not emit a warning beep.	

(7) BEEP (INK ERROR)

Set whether to emit a warning beep when an ink error has occurred.

```
#BEEP(INK ERROR)
>ON
```

Choice	Description	Remarks
ON	Emits a warning beep.	
OFF	Does not emit a warning beep.	

(8) BOOT Version

Displays the BOOT version.

```
#BOOT VERSION
*X.XX
```

(9) F/W Version

Displays the system firmware version.

```
#PRINTER FW VER
*X.XX_YY
```

(10) IPB Version

Displays the version of the IPB board.

```
#MAIN PCA VER
*XXXXXX
```

(11) ACT Version

Displays the version of the ACT board.

```
#ACT PCA VER
*X.XX
```

(12) HCB Version

Displays the version of the HCB board.

```
#CARRIAGE PCA VER
*XXXXXX
```

(13) BTC Version

Displays the version of BTC (FPGA).

```
#BTC VER
*XXX
```

(14) USB Address

Displays the USB address.

#USB ADDRESS
*XXX

<Parameter (execution method)>

000 to 255 pulses

* "000" means no connection.

When there is no USB connection, a USB address "000" is displayed.

(15) USB speed

Displays the transfer speed of USB connection.

#USB SPEED
*HIGH-SPEED

Choice	Description	Remarks
HIGH-SPEED	Connected at HIGH-SPEED.	
FULL-SPEED	Connected at FULL-SPEED.	

(16) Initial Setting

Sets all parameters to the initial settings at factory shipping.

#FACTORY DEFAULT
>

After the initial setting is performed, the printer needs to be rebooted.

(17) Update

Sets the printer to the online update mode.

#PRINTER FW UPGRADE
>

(18) Download

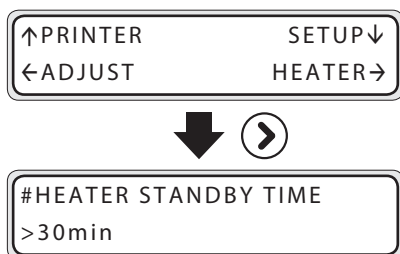
Sets the printer to the download mode.

#DOWNLOAD
>

HEATER MENU

This menu is used to set the heater standby time.

Press the  key to enable the heater settings.



(1) Standby Time

Select the time to maintain the standby set temperature of the heater (including the time for transition to the standby set temperature) after printing. (☞ **P.2-104**)

#HEATER STANDBY TIME
>30 min

<Parameter (choice input)>

0 MIN	Does not maintain the standby set temperature.
30 MIN	Maintains the standby set temperature for 30 minutes.
60 MIN	Maintains the standby set temperature for one hour.
120 MIN	Maintains the standby set temperature for two hours.
ENDLESS	Maintains the standby set temperature endlessly.

4

Print mode and special printing



This section describes details of print mode and overview of special printing such as double-sided printing.

(Content of this section)

Print mode and special printing.....	4-2
Double-sided printing.....	4-4

Print mode and special printing

This section describes details of print modes and overview of special printing such as double-sided printing.

Print modes

The print modes are classified into six as follows. Choose a print mode according to media type, productivity, and print quality.

Print mode	Feature	Explanation	Print speed*1	Max. print density*2	Print resolution (dpi)	Path
DRAFT1	Fastest mode	This print mode emphasizes productivity. As the input data becomes rough, the PC process time is reduced.	★★★★★ 60m ² /h (100m ² /h)	●●○○○	720 x 360	4
FINE DRAFT	Productivity and print quality emphasized reasonably	This print mode emphasizes productivity and print quality reasonably. The NORMAL1 mode's print speed is improved as the printer prints slightly more roughly than in NORMAL1 mode.	★★★☆☆ 40m ² /h (80m ² /h)	●●○○○	540 x 540	6
NORMAL1 *3	Normal mode (Normally used mode)	This is the normal print mode. Use this print mode normally. The print quality is processed with a high resolution.	★★★☆☆ 30m ² /h (60m ² /h)	●●○○○	720 x 720	8
NORMAL2 *4	Solid print's density emphasized more than productivity to solve weak or thin-spot at the solid-painted part	Use this print mode for media with which weak or thin-spot is found frequently at the solid-painted part.	★★★☆☆ 24m ² /h (48m ² /h)	●●●○○	720 x 900	10
QUALITY	Print quality emphasized more than productivity	Use this print mode when the print dries slowly in the NORMAL1 print mode or when uneven print is notable. They will be solved by printing at a low speed.	★☆☆☆☆ 15m ² /h (30m ² /h)	●●○○○	720 x 720	16
DENSITY2	High quality emphasized more than productivity for backlit media	Use this mode for the print on backlit media (FF, transparent vinyl chloride, translucent vinyl chloride, etc.) and for the print requiring density.	★☆☆☆☆ 15m ² /h (30m ² /h)	●●●●○	720 x 720	16

(): 4-color mode

- *1
The values indicate the speed to print on 2.5m-width roll media across the full width.
The former value indicates the 8-color print speed, and the latter, the 4-color one.
- *2
The max. print density shows a reference for the max. print density obtained by the printer.
With the actual print, density is obtained by the RIP profile's color management.
At DENSITY2 mode for backlit media, normally the whole image is printed with a slightly high density.
At the other modes, the image is printed as follows.
 - The image such as photo is printed with the same density.
 - The solid-painted part's density may differ depending on the RIP setting.
- *3
Your RIP software may display "STANDARD1" instead of "NORMAL1."
- *4
Your RIP software may display "STANDARD2" instead of "NORMAL2."

**HINT**

– We recommend the NORMAL1 print mode. Use other modes when you emphasize productivity and/or print quality.

Double-sided printing

This printer allows printing on both sides of media.

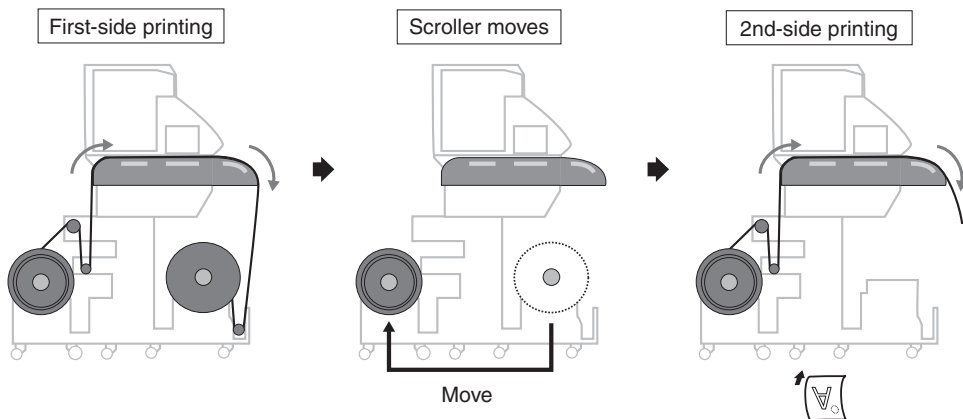
(☞ P.4-4)

Mesh banner printing

This printer allows printing on mesh-type banner without liner.

Double-sided printing

For convenience of explanation on the double-sided printing below, the side printed first is referred to as "first side" and the side printed next is referred to as "2nd side." The following procedure is described for the case to print the first side of the media, reinstall the media to the roll feed unit for each scroller that mound the media, and then print the 2nd side of the media.



1 Install the media.

For how to install media, refer

SELECT MEDIA
ROLL/SHEET:FACE

to P.2-7 "Media installation and removal." At this time, choose "FACE" with the  or  key for media selection.

Note

- When using banner (with different undulations on the first and 2nd sides) for single-sided printing, print the side with more undulations first regarding it as "first side."

2 Install the media to the take-up reel unit.

For how to install media to the take-up reel unit, refer to P.2-16 to P.2-21 "Procedure to install general roll media to the take-up reel unit."

Since a margin of approximately 2.5 m or more is required for the 2nd-side printing, wind about 4 turns of media to the take-up reel unit in advance.

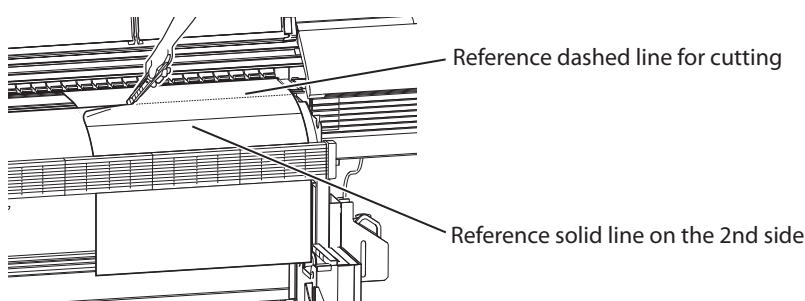
3 Start printing on the first side of the media.

4 When printing is completed, open the front cover and cut the media.

At the end of the first-side printing, two lines are printed. One line is a reference solid line to match print positions on the first and 2nd sides. The other line is a reference dashed line for cutting. Cut the media at the supply side leaving these two lines.


HINT

- We recommend you to insert the blade of a box cutter into the gap between the platen and the paper guide to cut the media.
- For easy installation of the 2nd side of the media, it is recommended that you mark the position of the reference solid line at both sides of the 2nd side.



Note

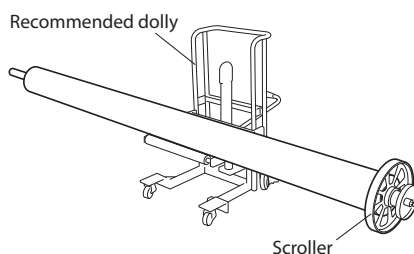
- The drying time of printed media varies depending on printed images. Confirm that printed media has dried, and then proceed to the next operation. Generally, dry the printed first side for three hours or more (24 hours for higDENSITY print), and then start 2nd-side printing.
- Pay attention not to drop the used media so as to avoid messing up the floor.

5 Detach the supply-side scroller from the printer.

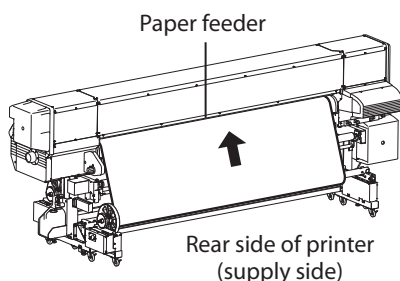
6 Detach the takeup-side scroller from the printer.

Note

- Use a dolly that we recommend or the like to attach or detach the scroller with sufficient care.



7 Slacken the media with the media feed switch and insert the end of the media into the paper feeder.



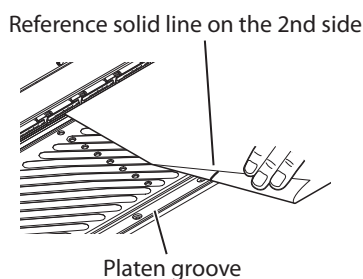
Insert the media while smoothing out the media to both sides by hand to prevent wrinkles. If it is hard to insert the media end into the paper feeder due to a curl of the media, interpose an interleaf and insert the media end under the interleaf.

Note

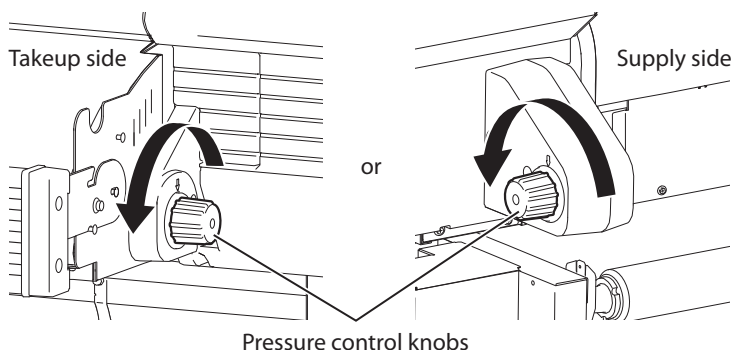
- If the media is set with a distortion or wrinkles, this may cause a media jam or skew.

8 Insert the media into the paper feeder and align the reference solid line at the end of the media with the platen groove.

If they do not match at the right and left sides, align them at one side first and hold the position by hand, and then align them at the other side while pulling the media.

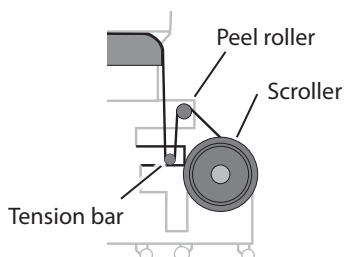
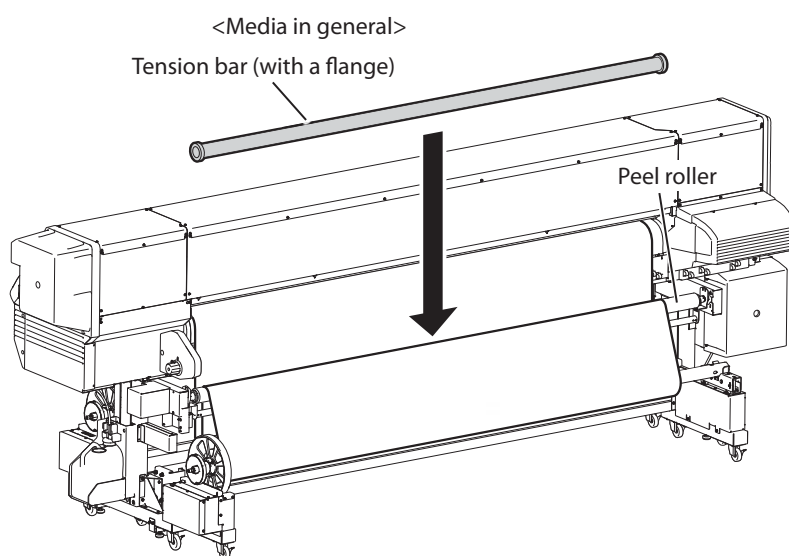


9 Lower the pressure roller with the pressure control knob.

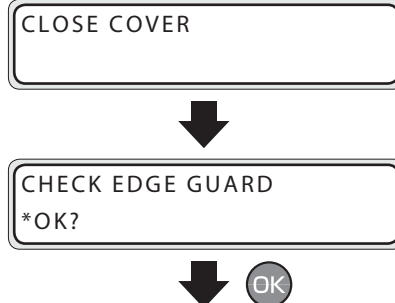


- 10** Use the supply-side feed switch (black) to create a slack inside the peel roller. Put the supply-side tension bar on the slack of the media at the supply side. (☞ **P.2-7 "Roll media installation procedure" step 18**)

Printer rear (supply side)



- 11** Set the media edge guards and close the front cover.



12 Select the media side to be supplied.

Select "BACK" with the  or  key. You can change the setting with the  key. If you press the  key, the setting remains unchanged.

SELECT MEDIA
ROLL/SHEET:BACK

13 Select a media type.

Select the media type with the  or  key. You can change the setting with the  key. If you press the  key, the setting remains unchanged.

SELECT MEDIA
MEDIA:PAPER

14 Confirm slack of supply side.

- If the media slack is insufficient, the printer does not proceed to the next operation.

CHECK
SLACKEN MEDIA



15 The media setting operation starts automatically.

- When the media setting is successfully completed, the printer returns to the online or offline state.
- If the media setting is not completed, an error message appears. Retry the procedure from step 8.

PREPARING MEDIA
PLEASE WAIT



Note

- Before starting 2nd-side printing, change the settings of "SUCTION FAN LEVEL" and "MEDIA ADV MODE" from the operation panel according to the media to be used. For media that is easy to adhere, set "SUCTION FAN LEVEL" to "LOW" and "SUCTION FAN LEVEL" to "BACK & FWD1 or BACK & FWD2."



HINT

- The print head should be cleaned before starting 2nd-side printing.

16 Start printing on the 2nd side of the media.

Note

- Note that the data transfer from the RIP differs by 180 degrees between first side and 2nd side.

5

Troubleshooting

This section describes actions to be taken when a problem of the printer has occurred. If the problem still remains after actions are taken, contact the dealer from whom you purchased the product or our service depot nearest to you .

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When encountering a problem

Before you regard the error as a printer failure, inspect or check the following and take proper actions.

■ Inspection/check items at the time of problem

Power is not turned on.

Inspection/check item	Action
● Connection of the power cord	Plug the power cable properly into a power outlet.
● Power supply to power outlet	Supply power to the power outlet. Check whether proper power voltage is supplied.
● Power switch ON/OFF status	Turn on the power switch. (☞P.2-3 "Power ON/OFF procedure")

The paper guide does not heat after the heater is turned on.

Inspection/check item	Action
● Printer status	The paper guide is heated during printing or when the heater is turned on with the heater control menu. Print an image or set the heater to ON to see if the paper guide is heated. (☞P.2-101 "Changing temperature using the heater control menu")
● Host computer RIP setting	The heater temperature can also be set by the RIP of the host computer. Check the host computer setting.
● Heater control menu	Turn on the heater (afterheater/printheater/preheater) again, and then print an image or forcibly set the heater to ON to see if the paper guide is heated.
● Power voltage	Connect the printer to 200 VAC power.

The printer does not start or operate normally.

Inspection/check item	Action
● Error LED ON and LCD message	Take appropriate actions according to the error message. (☞P.5-8 "When an error message is displayed")

Printing is disabled.

Inspection/check item	Action
● USB cable connection	Connect the USB cable correctly. (☞P.2-2 "Connection to a computer")
● Error LED ON and LCD message	Take appropriate actions according to the error message. (☞P.5-8 "When an error message is displayed")
● Error LED OFF	Print the test pattern. (☞P.3-54 ADJUST MENU (1) Adjustment pattern NOZZLE PRINT) (Confirm that the RIP software "Test pattern" is printed.)
● Print head cleaning	Clean the print head. (☞P.2-95 "Print head cleaning")

Although the printer is in the print mode, printing does not start with "PREHEATING" displayed on the operation panel.

Inspection/check item	Action
● Room temperature	Raise the room temperature. (Recommended temperature: 20 to 25°C)
● Affect of air flow	If the air from the air conditioner or fan is blowing against the paper guide, avoid the air flow (by changing air flow direction, orientation of the printer or the location of the printer).

The transmitted data is not printed.

Inspection/check item	Action
● ONLINE LED (blinking?)	Check the host computer communication conditions.

Print quality is not good.

(Refer to ☞P.5-16 "How to get good image quality")

Blank sheet appears.

Inspection/check item	Action
● Print data	Check the current print data to see if blank sheet data is sent.

Media jam occurs frequently.

Inspection/check item	Action
● Media type	Check whether the set media type matches the media type setting. (☞P.3-28 "MEDIA MENU")
● Media installation	Install the media properly. (☞P.2-7 "Media installation and removal")
● Foreign matter in the carriage path	Remove the foreign matter, if any. (☞P.5-6 "How to clear media jams")
● Foreign matter in the media feed path	Remove the foreign matter, if any. (☞P.5-6 "How to clear media jams")
● Suction fan power	If the suction fan power is not best set, reduce the power. (☞P.3-36 "SUCTION FAN LEVEL")
● Heater temperature setting	If the heater temperature is not best set, lower the heater temperature. (☞P.2-101 "Changing temperature using the heater control menu")

Print speed is low.

Inspection/check item	Action
● High-temperature environment	If the printer temperature is higher than 40°C, the printer prints media at a lower printing speed. Set the atmospheric temperature to 20 to 25°C (recommended temperature) and leave the printer for at least one hour, and then start printing.
● USB transfer speed	Check the USB transfer speed. When the USB connection is made at the full speed, change the host computer connection configuration to high-speed USB connection to increase the printing speed.

The menu is displayed in another language.

Inspection/check item	Action
● Language setting	Turn on the power switch while pressing the M E N U key to start the printer. The language setting menu appears. Set the language you want to use.

How to clear media jams

Remove a media jam using the following procedure according to the displayed guidance message.

1 The following guidance message appears.

WARNING! (X)
CLEAR MEDIA JAM

X: Media jam type

0: Media jam 0

A jam on the media feed path is invalidating the printer's normal operation.

1: Media jam 1

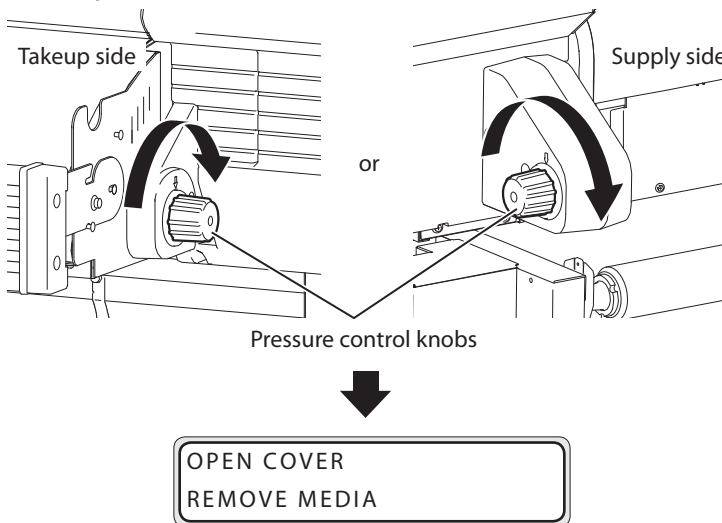
A jam on the carriage is invalidating the printer's normal operation.

2: Media jam 2

The media was not detected correctly because:

- Roll media or cut-sheet media was selected incorrectly.
- The length of the applied cut-sheet media is not as prescribed.

2 Release the pressure roller with the pressure control knob, and then open the front cover.



If the carriage must be moved manually, slide the carriage by softly pressing the arrowed part.

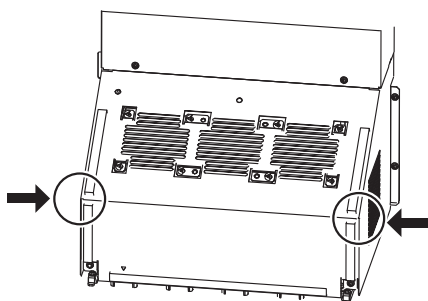
- 3 Remove the jam media, make sure that no obstacle is left in the carriage path and the media feed path, and then close the front cover.

CARRIAGE MOVING
PLEASE WAIT

- 4 The carriage moves to the home position.
- 5 Install the media following "Media installation and removal" (P.2-7).

Note

- If the carriage must be moved manually, slide the carriage by softly pressing the arrowed part.



When an error message is displayed

When the Error LED lights up, check the message displayed on the LCD first.
Error messages are classified into the following two groups.

Service call errors:

Errors that the operator (customer) cannot handle, such as hardware/software failures.
Contact our service depot.

Operator call errors:

Errors that the operator (customer) can handle.
Take actions following the message.

Messages shown below are error messages.
Take appropriate actions according to the error message displayed on the LCD.

Service call errors



- When the following service call error appears, reboot the printer by turning off and on the following.
 - Operation panel's power switch
 - Rear panel's printer power switch
 - Rear panel's heater power switch
- The error is reset in some cases.

Note

- Wait for one minute after the power switch is turned off at the service call error, and then turn on the power switch again.

(System error)



nnnn: Error code

Meaning	An unrecoverable error occurred.
Action	Contact the sales dealer or our service depot nearest to you, and inform them of the displayed error code.

Operator call errors

The following errors can be handled by the operator.

(Ink errors)

CLOSE INK COVER

Meaning	The ink cover is open.
Action	Take appropriate actions according to the message.

OPEN INK COVER
XXX LOAD INK PACK

XXX: Ink color/location

Meaning	An ink pack is not installed.
Action	Take appropriate actions according to the message. If this message appears when the ink pack of the specified color is installed, the ink pack may not be installed properly. Check whether it is installed properly.

CHECK nn
XXX INK PACK

nn: Ink error code
XXX: Ink color/location

Meaning	A problem occurred with the ink tray or the genuine ink pack cannot be recognized.
Action	Take appropriate actions according to the message.

OPEN INK COVER
XXX REPLACE INK CART

XXX: Ink color/location

Meaning	The ink is exhausted.
Action	Take appropriate actions according to the message. (☞ P.2-49 "Ink pack installation and replacement")

OPEN INK COVER
CHECK XXX INK PACK

XXX: Ink color/location

Meaning	The ink pack color is not correct.
Action	Install the correct ink pack.

CHECK (KIND)
XXX INK PACK

XXX: Ink color/location

Meaning	The ink pack type is not correct.
Action	Install the correct ink pack.

OPEN SUBCART COVER
XXX LOAD SUBCART

XXX: Ink color/location

Meaning	The subcartridge is not installed.
Action	Take appropriate actions according to the message.

OPEN SUBCART COVER
XXX CHECK SUBCART

XXX: Ink color/location

Meaning	A problem occurred with the subcartridge or the genuine ink pack cannot be recognized.
Action	Take appropriate actions according to the message.

CHECK (COLOR)
XXX SUBCARTRIDGE

XXX: Ink color/location

Meaning	The subcartridge color is not correct.
Action	Install the correct subcartridge.

CHECK (KIND)
XXX SUBCARTRIDGE

XXX: Ink color/location

Meaning	The subcartridge type is not correct.
Action	Install the correct subcartridge.

CLOSE SUBCART COVER

Meaning	The subcartridge cover is not attached.
Action	Take appropriate actions according to the message.

(Waste ink bottle errors)

BOTTLE OUT
INSTALL BOTTLE

Meaning	No waste ink bottle is installed.
Action	Take appropriate actions according to the message. (☞P.2-87 "Waste ink bottle installation and replacement")

BOTTLE FULL
REPLACE BOTTLE

Meaning	The waste ink bottle is full.
Action	Take appropriate actions according to the message. (☞P.2-87 "Waste ink bottle installation and replacement")

(Media jam errors)

WARNING! (0)
CLEAR MEDIA JAM

Meaning	A media jam (0) occurs when an obstacle is left in the media feed path and the printer cannot feed the media normally.
Action	Take appropriate actions according to the message. If the media jam (0) error occurs repeatedly although there is no media jam or no obstacle in the media feed path, contact our service depot. (☞P.5-6 "How to clear media jams")

WARNING! (1)
CLEAR MEDIA JAM

Meaning	A media jam (1) occurs when an obstacle is left in the carriage path and the printer cannot drive the carriage normally.
Action	Take appropriate actions according to the message. If the media jam (1) error occurs repeatedly although there is no media jam or no obstacle in the carriage path, contact our service depot. (☞P.5-6 "How to clear media jams")

WARNING! (2)
CLEAR MEDIA JAM

Meaning	A media jam (2) occurs when the media is not detected correctly because: - The roll media or cut-sheet media is wrongly selected or - The cut-sheet media of unspecified size is used.
Action	Take appropriate actions according to the message. Also check the settings. (👉 P.5-6 "How to clear media jams")

(Media errors)

NO MEDIA LOADED
LOAD MEDIA

Meaning	Media is exhausted or the flange is not attached correctly to the flange holder.
Action	When there is no media, install new media. If the flange is not attached correctly, attach it correctly. (👉 P.2-7 "Media installation and removal")

LOAD MEDIA

Meaning	Media cannot be detected.
Action	Install media. (👉 P.2-7 "Media installation and removal")

MEDIA SIZE ERROR
CHECK MEDIA

Meaning	Media of invalid width size (shorter than 36 inches or longer than 104 inches) is installed.
Action	Install media of the specified size. (👉 P.2-7 "Media installation and removal")

**MEDIA MISALIGNED
RELOAD MEDIA**

Meaning	The media skewed.
Action	Reinstall the media correctly. Ink may have been discharged on the platen depending on the skew level. In that case, completely remove the ink from the platen. (☞P.2-7 "Media installation and removal")

**MEDIA MISALIGNED
OK/CANCEL**

Meaning	Media skew was detected during printing.
Action	Continue to print or stop printing.

(Print head error)

**PH COOLING PROCESS
PLEASE WAIT**

Meaning	The temperature of the print head is outside the operating temperature range.
Action	Use the printer within the operating temperature range. Leave the printer until the print head temperature falls within the operating temperature range.

(Communication errors)

**NO DATA RECEIVED
CHECK USB CABLE**

Meaning	An abnormality (cable disconnection) of the USB cable connection was detected during transfer of print data.
Action	Check the USB cable connection.

**NO DATA RECEIVED
CHECK HOST**

Meaning	A timeout occurred during transfer of print data, but the error does not seem to be due to the printer.
Action	Check the USB cable connection.

(Other errors)

CLOSE COVER

Meaning	The front cover is open.
Action	Take appropriate actions according to the message.

INK CHARGE NOT DONE CHARGE INK SYS

Meaning	Cleaning or printing was performed before ink charging is completed.
Action	Do not perform cleaning or printing before ink charging is completed. Perform ink charging.

OPEN COVER TO ATTACH SPITTOON CASE

Meaning	The uninstallation of the tray was detected when the printer was booted or when the cover was closed.
Action	Take appropriate actions according to the message. (☞ P.2-114 "Cleaning the carriage")

ENV. TEMP. ERROR CHANGE ENV TEMP

Meaning	The ambient temperature is outside the operating temperature range of the printer.
Action	Use the printer within the operating temperature range (15 to 30°C).

When a warning message is displayed

Warning information is notified by blinking the error LED . The following warning message appears after online printing.

Take appropriate actions according to the displayed message.

PERFORM DAILY MAINTENANCE NOW

Meaning	This error indicates that the daily maintenance (cap cleaning) is not conducted.
Action	Perform the daily maintenance. (☞P.2-108 "Periodic maintenance")

SERVICE NEEDED CALL SERVICE

Meaning	The life of the cap, SUS belt, and supply tube pump assembly is coming close.
Action	Ask the service depot to replace them .

REPLACE WIPER BLADE

Meaning	The life of the wiper blade is coming close.
Action	Execute [REPLACE WIPER BLADE] in the PH.MAIN menu to replace the wiper blade. (☞P.2-90 "Replacing the wiper blade")

LOAD INK PACK CHARGE INK

Meaning	After the initial ink filling, Ink filling from the ink tray is not yet completed.
Action	Prepare an ink pack and perform cleaning menu.When you select "cleaning", the ink supply menu is displayed automatically.

- The Ink LED  blinks:

Meaning	A small amount of ink is remaining. (Warning)
Action	Prepare a new ink pack. (☞P.2-49 "Ink pack installation/replacement procedure")

How to get good image quality

This section describes the hint for you How to get good image quality with the printer.
Take appropriate actions according to the state of prints.

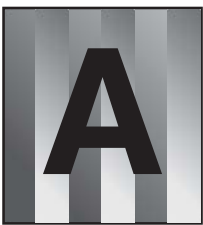
Note

- When several actions are described, they are arranged in the order of effectiveness. Therefore, it is recommended that you take actions from the top and confirm the effect on the improvement. (Note that all the described actions are not always necessary to solve the problem.)

The print is light.

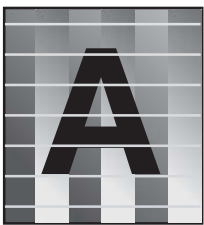
Cause	Action
● The operating environment is outside the specification of the printer.	Raise the ambient temperature to more than 15°C (20 to 25° C recommended) to warm the printer adequately.
● Media is not selected properly.	Check the media selection. (☞P.3-34)

White stripes appear on the print.



Basic image





[Cause]
Improper media feed adjustment

[HINT]
White stripes appear in all colors when color stripes are attached.





[Cause]
Nozzle-out of the print head

[HINT]
White stripes appear in some colors when color stripes are attached.

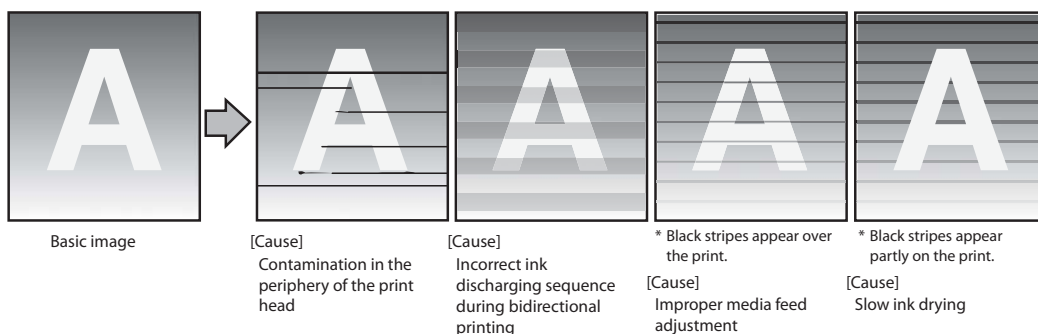




[Cause]
Mismatch between ink and media/Fast ink drying

Cause	Action
Media feed is not adjusted properly.	- Set the print quality mode to ON and print the media. (☞P.3-38) - Print the media advance correction pattern and adjust the media feed amount. (☞P.2-38) - Change the pressure force with the pressure control knob. (☞P.2-105) - Print the media advance correction pattern again and adjust the media feed amount. (☞P.2-38) - Print the media advance correction pattern (QUALITY) and adjust the media feed amount. (☞P.3-47) - Print the media in the QUALITY print mode. (☞P.4-2)
 HINT – Hint for media advance correction value (☞P.5-23)	- Nozzle missing of the print head - Remove dust or dirt, if any, on the platen. - Perform the daily maintenance. (☞P.2-108) - Perform print head cleaning (NORMAL ALL) (☞P.2-95), and then perform nozzle print to check that nozzle missing has been improved. (☞P.3-54) - Perform the fillcap operation and print head cleaning (NORMAL ALL). Then perform nozzle print to check that nozzle missing has been improved. (☞P.3-54) - Clean the print head surface with a head cleaning sheet. Then perform nozzle print to check that nozzle missing has been improved. (☞P.3-54)  HINT – Printing with color stripes reduces nozzle-out. (☞P.3-37)
The ink does not match well with the media./Ink dries fast.	- Print the media advance correction pattern and adjust the media feed amount. (☞P.2-38)  HINT – Hint for media advance correction value (☞P.5-23) - Lower the heater temperature. (☞P.2-101) - Print the media in the QUALITY print mode. (☞P.4-2) - Print the media in the DENSITY print mode. (☞P.4-2) - Use proven media.

Black stripes appear on the print.

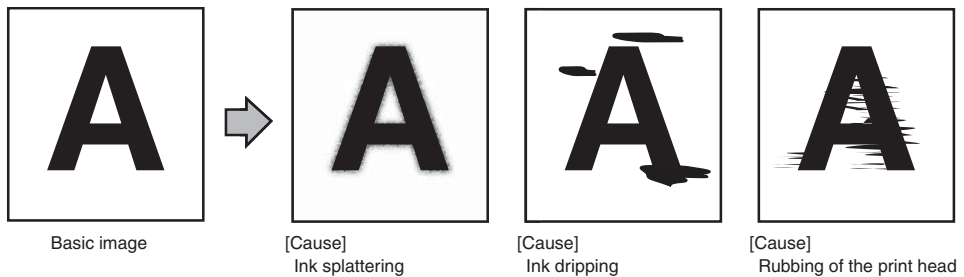


Cause	Action
● The periphery of the print head is contaminated.	(1) Clean the head guard. (2) Raise the print head. (🔧P.2-90)
● Incorrect ink discharging sequence during bidirectional printing	(1) Set the print quality mode to ON and print the media. (🔧P.3-38) (2) Print the media in the QUALITY print mode. (🔧P.4-2)
● Media feed is not adjusted properly.	(1) Set the print quality mode to ON and print the media. (🔧P.3-38) (2) Print the media advance correction pattern and adjust the media feed amount. (🔧P.2-38) (3) Change the pressure force with the pressure control knob. (🔧P.2-105) (4) Print the media advance correction pattern again and adjust the media advance. (🔧P.2-38) (5) Print the media advance correction pattern in QUALITY and adjust the media advance. (🔧P.3-37) (6) Print the media in the QUALITY print mode. (🔧P.4-2)
● Ink dries slowly.	(1) Raise the heater temperature. (🔧P.2-101) (2) Print the media in the QUALITY print mode. (🔧P.4-2) (3) Use proven media.



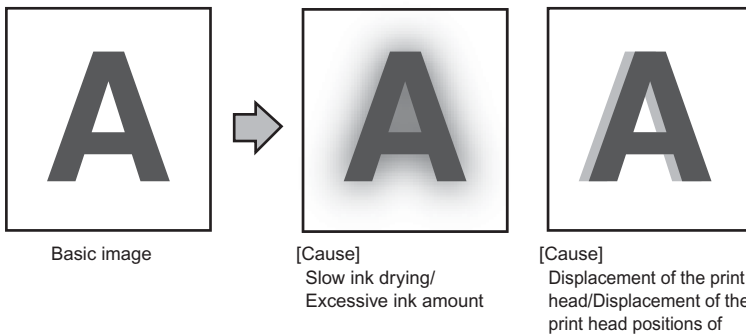
HINT
– Hint for media advance correction value
(🔧P.5-23)

The print is contaminated.



Cause	Action
● Ink splattering	(1) Check the print head height. If it is high, set the height to the normal height. (☞P.2-106) (2) Perform the daily maintenance. (☞P.2-108) (3) Perform print head cleaning (NORMAL ALL). (☞P.2-95) (4) Check the atmospheric temperature. (Recommended temperature: 20 to 25°C) (5) Replace the media with proven media.
● Ink drooling	(1) Check the media for wrinkles or float or oblique setting, and then reinstall the media if necessary. (☞P.2-7) (2) Perform print head cleaning (NORMAL ALL). (☞P.2-95) (3) Perform the daily maintenance. (☞P.2-108) (4) Perform the CL fillcap operation. (5) Clean the print head surface with a head cleaning sheet. (6) Raise the print head slightly. (☞P.2-106)
● Rubbing of the print head	(1) Reinstall the media. (☞P.2-7) (2) Clean the head guard. (☞P.2-114) (3) Raise the print head. (☞P.2-106) (4) Adjust the heater temperature so that the media does not wrinkle. (☞P.2-101) (5) Replace the media. (☞P.2-7) (6) Lower the ambient humidity. (The media may absorb moisture and wrinkle.)

Bleeding occurs on the print.

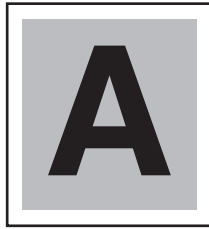


Cause	Action
● Ink dries slowly/Excessive ink amount	(1) Raise the heater temperature. (☞P.2-101) (2) When the printer is in the DENSITY print mode, change the print mode to QUALITY. (☞P.4-2)
● Print head position's misalignment/ Print head bi-directional position's misalignment	(1) Adjust the print head position. (☞P.3-41) (2) Adjust the print head positions of bi-directional movement. (☞P.3-46)

Nozzle-out occurs at the beginning of printing.

Cause	Action
● Outside the operating temperature/humidity range	Use the printer within the operating temperature/humidity range. (☞P.1-3)

A vertical barding appears at the end of the print.



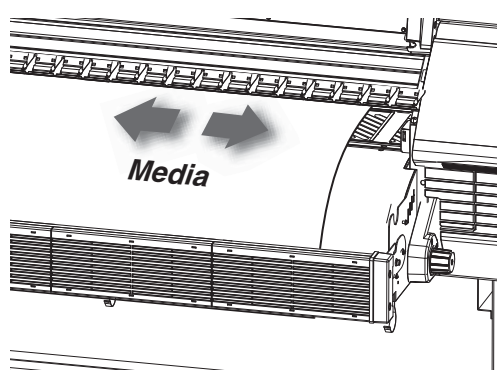
Basic image



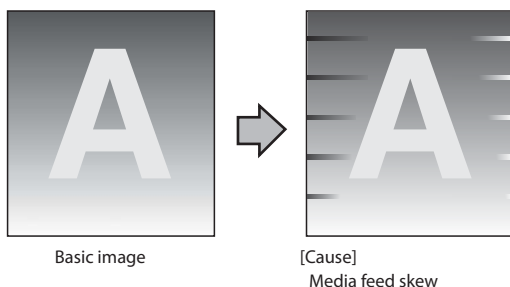
[Cause]
The contacting point of the media left end and the media edge guard on the platen is near the suction hole.



[Cause]
The contacting point of the media right end and the media edge guard on the platen is near the suction hole.

Cause	Action
When the contacting point of the media edge and the media edge guard on the platen is near the suction hole, the printer sucks a part of ink charged out between the media and the media edge guard, which produces vertical stripes in some cases.	(1) Shift the media so that the contacting point of the media edge and the media edge guard on the platen does not come close to the suction hole (☞P.2-7)  * The suction hole must not be located within this range.  Media Media edge guard Platen Suction hole An example of media position when vertical banding appear Example (1) of shifting the media position when vertical banding appear Example (2) of shifting the media position when vertical banding appear

Different banding appear on the right and left of the print.



Cause	Action
● The media is skewed during feeding.	(1) Check for skew, dent or roll media state. If the roll media is not well finished, replace it with a good one. (2) Check whether the media is set straight to the printer. If it is set obliquely, raise the pressure roller with the pressure control knob to shift the media to the right or left until it becomes straight. When using the take-up reel unit, adjust the paper tube position on the takeup side and reinstall the end of the media to be wound around the paper tube so that the media is wound straight to the paper tube. (☞P.2-7)

Hint for media advance correction value

Appropriate media advance correction value varies as the following conditions change.

Conditions	Hint
■ Appropriate media advance correction value varies with the media conditions such as media type or media width size.	In addition, it may also vary with production tolerance even when the same type of media is used. Therefore, the media advance correction value must be set when the roll media is replaced. (☞P.2-38)
■ Appropriate media advance correction value may vary when the length of the tension bar to be set on the roll feed unit is changed.	For combinations of the same media type and media width size, always use an appropriate media advance correction value for the same tension bar length. The appropriate media advance correction value tends to become smaller as the tension bar becomes shorter.
■ Appropriate media advance correction value may vary when winding conditions for the take-up reel unit are changed.	The appropriate media advance correction value tends to become smaller when media is taken up by the tension bar that is set on the takeup side rather than when media is taken up by slack winding without using the take-up reel unit.
■ Appropriate media advance correction value varies when print mode is changed.	Appropriate media advance correction value differs with the number of paths of the print mode. The same media advance correction value can be used for the same number of paths even in different print mode. (☞P.4-2)
■ Appropriate media advance correction value differs between print heads of each color.	It is recommended that you usually set the average of media advance correction values of all colors. Better result can be obtained in some cases if you set a media advance correction value considering the importance of color according to the print data.
■ Appropriate media advance correction value differs on the right and left sides of the media.	It is recommended that you usually set the average of the right and left media advance correction values. Better result can be obtained in some cases if you set a media advance correction value considering the importance of image position according to the print data.
■ When media is easy to adhere to the paper guide like banner	It is recommended that you set the media advance correction value by printing the media advance correction pattern and then make adjustment while changing the correction value during printing of an actual image. (☞P.3-8)


HINT

– Set the media advance correction value by printing the media advance correction pattern and then change the correction value to an appropriate value while printing with the actual print data to achieve better print quality. This method is effective for lengthy printing in particular. (☞P.3-8 (3) Changing media advance correction value during online printing)

When abnormal sound is produced

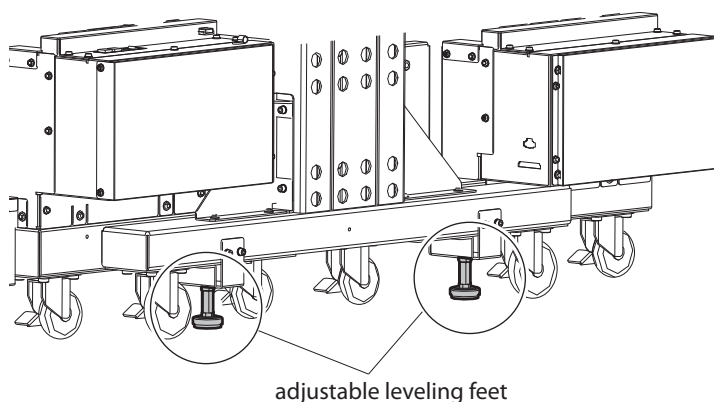
When you hear abnormal operating sound, contact the sales dealer or our nearest service depot.

To move the printer

When you want to move the printer, contact the sales dealer or our nearest service depot.

Note the following when the printer must be moved several meters on the flat floor.

- Do not move the printer with the scroller attached. The printer may be damaged due to the weight of the media.
- Loosen and raise the adjustable leveling feet at the bottom of the printer before moving the printer. Be sure to lower and tighten them after the printer is moved.
- Be careful not to hit the adjustable leveling feet against any obstacles during moving.



Appendix



This section describes the basic specifications and components of the printer and service depots.

(Content of this section)

Basic specifications	A-2
Footswitch (option)	A-3
Exhaust attachment (option)	A-5

Basic specifications

Printer specifications

Basic specifications of the printer

Item	Specification / Function
Print method	Piezo-type color inkjet printing
Resolution	720 dpi (main scanning direction) X 360 dpi (sub scanning direction), 540 dpi X 540 dpi, 720 dpi X 720 dpi, 720 dpi X 900 dpi
Print speed	25 m ² /h for 16-inch width at 8-path NORMAL1 mode (depending on ambient temperature and head temperature)
Media supply/takeup direction	Rear: Supply side, Front: Takeup side
Media type	Vinyl chloride, backlit tarpauline (FF), banner, mesh banner, cloth
Media width	Max. 104 inches (2641 mm)
Ink pack	Normal solvent ink (8 colors) (black, cyan, magenta, yellow, light cyan, light magenta, gray, light gray) 1500 ml for each color
Noise	Standby: 45 dB (A) or less Operating: 60 dB (A) or less (continuous sound) excluding supply/takeup motor noise and ink charging noise
Calorific power	15552000 J/h
Guaranteed print area	Area excluding top/bottom margins (5 mm) and right and left margins (5 mm) (When media edge guards are used, right and left margins are 10 mm.)
Power supply voltage	Printer power supply: 200 to 240 VAC, 6 A, 50/60 Hz Heater power supply: 200 to 240 VAC, 12 A, 50/60 Hz
Input power voltage range	Printer power supply: 180 to 260 VAC $\pm 10\%$, 50/60 Hz ± 1 Hz Heater power supply: 180 to 260 VAC $\pm 10\%$, 50/60 Hz ± 1 Hz
Power consumption	Printer power supply: 1440 W or less Heater power supply: 2880 W or less
External dimensions	4126 mm (W) X 1366 mm (D) X 1513 mm (H) ± 10 mm
Mass	600 kg or less (excluding roll media and ink)
Print ensuring temperature/humidity	20 to 25°C, 40 to 60%RH (no condensation)
Operating temperature/humidity	15 to 30°C, 30 to 70%RH (no condensation)
Storage temperature/humidity	5 to 35°C, 10 to 80%RH (no condensation)
Installation space	Min. 4926 mm (W) X 2900 mm (D) X 2200 mm (H)
Maintenance space	Min. 4926 mm (W) X 2900 mm (D) X 2200 mm (H)

Footswitch (option)

The footswitch allows you to operate the take-up reel unit by foot. This improves work efficiency.

How to use the footswitch

(Footswitch connected to the take-up reel unit)

- Use the take-up direction switch on the take-up reel unit of the printer to set inner take-up or outer take-up.
- The black switch of the footswitch has the same function as the take-up reel switch (black) of the take-up reel unit. Press the black footswitch to take up media to the take-up scroller.
- The white switch of the footswitch has the same function as the media feed switch (white) of the take-up reel unit. Press the white footswitch to feed media from the take-up scroller.

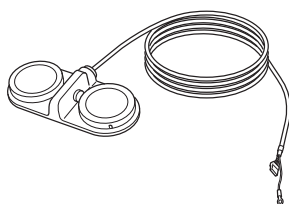
(Remark)

- Attaching footswitches do not increase power consumption.

Usage notes

- Do not use footswitches in a humid place or a place exposed to water to prevent a failure.
- Do not connect or disconnect the footswitch with wet hand to prevent a failure.
- When ink adheres to the footswitch, remove it immediately. If the footswitch is left with ink for a while, the switch surface may be damaged.
- Hold the connector of the footswitch cable when connecting or disconnecting the footswitch. Pulling the cord of the cable may result in disconnection or poor contact of the connector.
- Be sure to connect the ground lines. Otherwise, a malfunction or failure due to noise may be caused.
- Do not press the footswitch strongly. This may cause a failure of the switch part.
- Do not put anything on the footswitch cable. Doing so may result in disconnection or other failure.

Components



Footswitch
<1 piece>

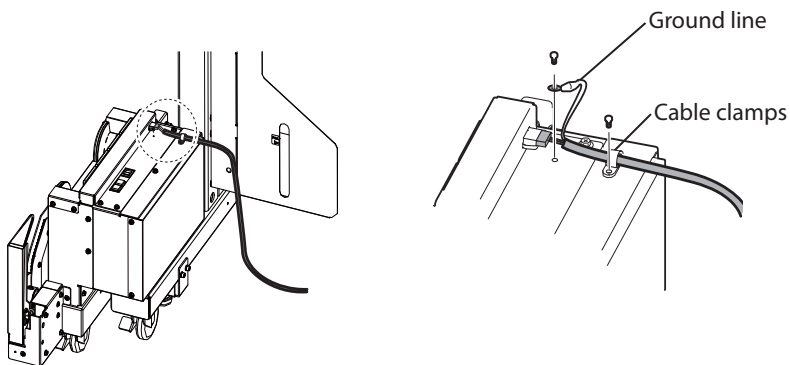
Installation

Note

- Turn off the power switch of the printer before installing the footswitch.

Plug the other connector of the footswitch in the connector of the take-up reel unit, and then screw the ground line.

Loosen the screw fixing the cable clamp to the printer. Then fix the cable with the cable clamp at the clamp's original position.



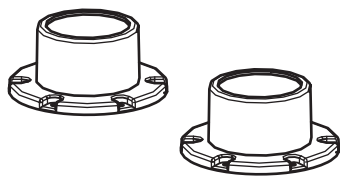
Exhaust attachment (option)

Attach exhaust attachments to exhaust ink smell discharged during printing to the outside. Prepare an exhaust duct in advance.

Note

- Ventilation of the room is necessary regardless of whether the exhaust attachments are used.

Components



Exhaust attachment
<2 pieces>



Exhaust attachment
mounting screw
<12 pieces>

Installation

Attach two exhaust attachments to the top surface of the printer with six screws for each.
(Exhaust attachments)

